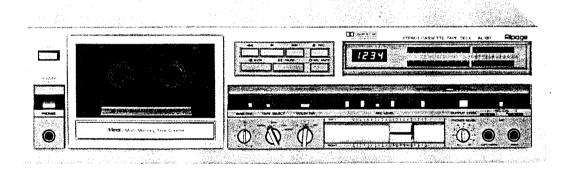
SERVICE MANUAL Alpage STEREO 80 CASSETTE DECK



ALPINE ELECTRONICS INC.

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Specifications

D C	35W
Power Consumption	110/127/220/240V AC 50/60 Hz (For Multi Voltage Model only)
Power Source	120V AC 60 Hz (For Single Voltage Model only)
- 0 L/NATT 111\	4.76 cm/sec. ±2%
Tape Speed (IVIII-III)	0.05%
Wow & Flutter (JIS, WI	RMS, MTT-111)
FF/REW Time (C-60).	100 sec.
Frequency Response (N	Metal) (±3 dB)
Take Un Torque	50 gard
Output Level/Impedance	The second of th
·	Wic 80m v/s ciri
Signal to Noise Ratio	(NR OFF)
Orginal to receive	(NR R)
	(NR C) 64 d B
Book / Playback Head	Two Gap Combination Ferrite Core
necolu/riayback riedu	Double Gaps Ferrite Core
Erase Head	3%
Distortion	35 dB
Stereo Separation	Line: 100mV/50K ohm: Mic: 0.3mV/600 ohm
Input Sensitivity/Impe	dance Line; 100mV/50K ohm; Mic; 0.3mV/600 ohm
Semi-conductors	
Dimensions	435(W) × 116(H) × 254(D) m m
Weight,	5.6 kg

Parts Locations and Disassembly Instructions

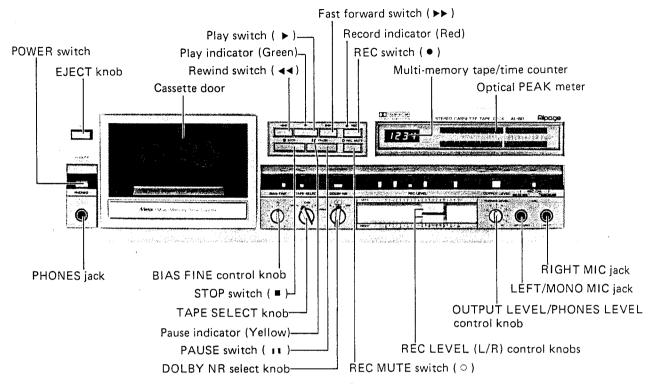


Figure 1

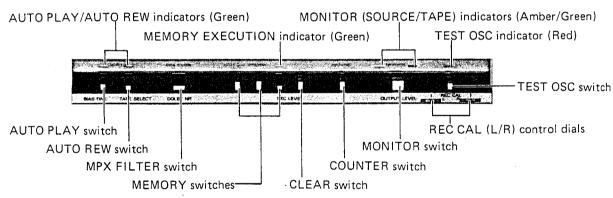


Figure 2

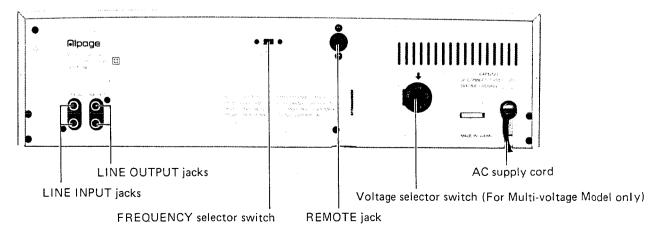


Figure 3

1. Removal of Top Cover

- (1) Remove six screws marked " \circ " as shown in Figures 4 and 5.
- (2) Remove the top cover in the direction of the arrow as shown in Figure 4.

2. Removal of Front Panel, Keyboard Switch P.C. Board, REC CAL P.C. Board and Dolby (C) LED P.C. Board

- (1) Pull out four knobs as shown in Figure 4.
- (2) Remove the cassette door upward as shown in Figure 4.
- (3) Remove the link spring as shown in Figure 10.
- (4) Remove eight screws marked " \square " as shown in Figures 5 and 6.
- (5) Disconnect all connectors from the REC CAL P.C. Board, Keyboard Switch P.C. Board and Dolby (C) LED P.C. Board.
- (6) Remove the front panel from the chassis.
- (7) Remove a tack, remove the REC CAL P.C. Board as shown in Figure 7.
- (8) Remove a screw marked " ϕ ", remove the Dolby (C) LED P.C. Board as shown in Figure 7.
- (9) Pull the Keyboard Switch P.C. Board winding the hooks carefully as shown in Figure 7.

3. Removal of Rear Cover

- (1) Remove ten screws marked " \triangle " as shown in Figure 5.
- (2) Remove two tacks as shown in Figure 5.
- (3) Remove the rear cover.

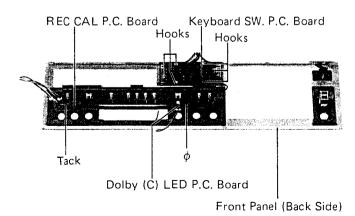
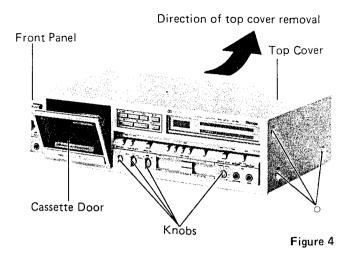
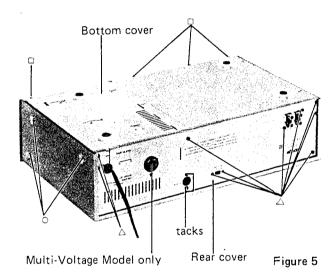


Figure 7





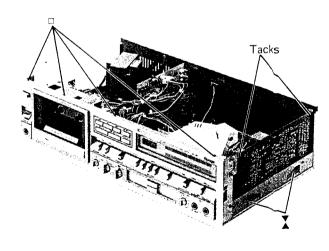


Figure 6

4. Removal of Optical Meter with Lamp P.C. Board and FL Counter P.C. Board

- (1) Remove two screws marked " ※ " as shown in Figure 8.
- (2) Remove the crystal meter and frame meter as shown in Figure 9.
- (3) Pull out the optical meter as shown in Figure 8.
- (4) Disconnect all wires from the optical meter and both P.C. Boards.
- (5) Remove the optical meter with Lamp P.C. Board, and FL Counter P.C. Board.

5. Removal of Master Board P.C. Board

- (1) Remove four screws marked " ▼ " as shown in Figures 6 and 8.
- (2) Remove two tacks as shown in Figure 6.
- (3) Remove two mic jack stoppers as shown in Figure 9.
- (4) Remove two nuts (Bias Fine/Phone Level) as shown in Figure 9.
- (5) Remove two screws marked "⊗" as shown in Figure 9.
- (6) Disconnect all wires from the P.C. Board.

6. Removal of Power & Control P.C. Board

- (1) Remove three screws marked " # " as shown in Figure 8.
- (2) Disconnect all wires from the P.C. Board.

7. Removal of REC Volume P.C. Board

- (1) Remove two screws marked " $\stackrel{.}{\simeq}$ " as shown in Figure 9.
- (2) Remove the slide volume panel.
- (3) Remove four screws marked "▲" as shown in Figure 9.
- (4) Disconnect all wires from the P.C. Board.

8. Removal of Switch P.C. Board

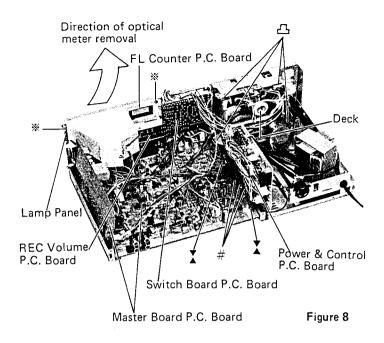
- (1) Remove four screws marked " \Diamond " as shown in Figure 9.
- (2) Disconnect all wires from the P.C. Board.

9. Removal of Phones P.C. Board

- (1) Remove phones P.C. Board stopper as shown in Figure 9.
- (2) Disconnect all wires from the P.C. Board.

10. Removal of Cassette Deck

- (1) Remove four screws marked " \triangle " as shown in Figure 8.
- (2) Disconnect all wires from the cassette deck.



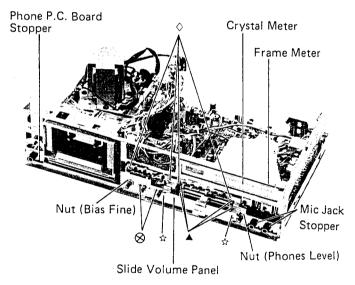


Figure 9

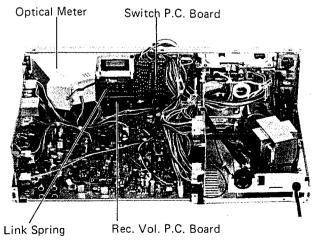


Figure 10

Adjustment Procedures

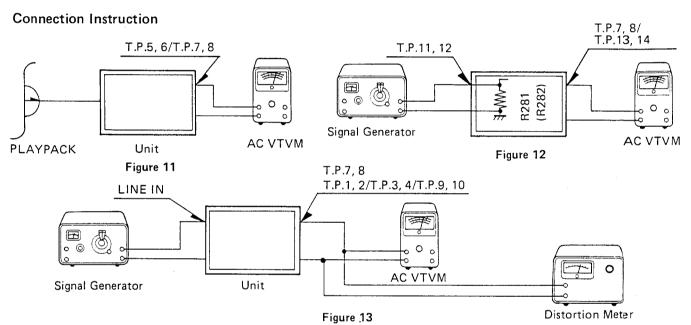
Step	Description	Mode		djust oints	Test Points	Connection Instruction	Remarks
1	Tape Speed Adjustment						
2	Head Height and Tilt Angle Adjustment	S	ee FL	. Cassette De	ck of ALPA	GE TECHNIC	AL GUIDE.
3	Head Azimuth Adjustment						
	Playback Level	Playback Tape: Nor.	1	VR251 VR252	T.P.5 T.P.6	Figure 11	Test Tape: MTT-150 Adjust for 580mV
4	Adjustment	NR: OFF Moni: Tape	2	VR351 VR352	T.P.7 T.P.8	Figure 11	Adjust for 580mV
	Playback Adjustment (Refer to Figure 14)		1	C251 C252	T.P.13 T.P.14	Figure 12	Test Signal Input: 23 KHz, non cliping Level Select capacitance of C251 and C252 for 23 KHz at the peak point. <23KHz: Increase the capacitance >23KHz: Decrease the capacitance
5		Playback Tape: Nor. NR: OFF Moni: Tape	2	R251 R253 R289 R252 R254 R290	T.P.13 T.P.14	Figure 12	Select resistor at the peak point to 5 ~ 6 dB from bottom of EQ curve and connect it with dipping solder. <5 dB: Increase the resistance >6 dB: Decrease the resistance
			3			Figure 12	Change tape position to CrO ₂ position. Confirm -3.5 dB from normal level at the level point of 14 KHz.
6	Rec. Level	Rec/Pause Tape: Nor. NR: OFF	1	VR201-1 VR202-2	T.P.1 T.P.2	Figure 13	Test Signal Input : 400 Hz, 300mV Adjust for 580mV
	Adjustment	Moni: Source Bias: OFF (See Note)	2	VR301 VR302	T.P.3 T.P.4	. Figure 13	Adjust for 580mV
7	Level Meter Adjustment	Rec/Pause Tape: Nor. NR: OFF Moni: Source Bias: OFF		VR401 VR402	Level Meter	Figure 13	Conditions at step 6. Adjust for 0 dB (DD Mark)
8	TEST OSC Adjustment	Stop Tape: Nor. NR: OFF Moni: Source Test OSC: ON Bias: OFF		VR801 VR802	Level Meter		Adjust for 0 dB (III Mark)
9	Rec. Peak Adjustment	Rec/Pause Tape: Nor. NR: OFF Moni: Source Bias: OFF		L501 L502	T.P.9 T.P.10	figure 13	Test Signal Input: 23 KHz, 17mV (300mV -25 dB) Adjust for peak point come to 23 KHz.

Step	Description			Mode	Adjust Points	Test Points	Connection Instruction	Remarks		
	Rec/Play output level & Frequency Response Adjustment			/Play OFF			Figure 13			
			1	Tape: Metal	VR519 VR520	T.P.9 T.P.10		Test Signal Input : 400 Hz, 300mV Adjust for 8mV		
			2	Tape: Metal	L503 L504	T.P.9 T.P.10		Adjust for max, and repeat step (1).		
			3	Tape: CrO₂	VR517 VR518	T.P.9 T.P.10		Adjust for 4.8mV (8mV -4.5 dB)		
			4	Tape: CrO ₂	VR501 VR502 (Rec. CAL VR)	T.P.7 T.P.8		Adjust for 580mV		
			5	Tape: Metal	VR513 VR514	T.P.7 T.P.8		Adjust for 580mV		
	(1)	Bias Pre-Set	6	Tape: Metal	VR519 VR520	T.P.7 T.P.8		Adjust for max. output, and adjust for 1% distortion from max. output level by VR519, VR520.		
			7	Tape: CrO ₂				Repeat Step (4)		
			8	Tape: Metal				Repeat Step (5)		
10			9	Tape: CrO ₂	VR517 VR518	T.P.9 T.P.10		Adjust for 4.8mV (8mV -4.5 dB)		
				10	Tape: FeCr	VR522	T.P.9 T.P.10		Adjust for 4.3mV (8mV -5.5 dB)	
			11	Tape: Nor.	VR521	T.P.9 T.P.10		Adjust for 3.4mV (8mV –7.5 dB)		
		Rec/Play	1	Tape: CrO ₂	VR501 VR502	T.P.7 T.P.8		Test Signal Input 400 Hz, 300mV. Adjust for 580mV		
	463		2	Tape: Metal	VR513 VR514	T.P.7 T.P.8		Adjust for 580mV		
	(2)	Level Adjustment	3	Tape: FeCr	VR507 VR508	T.P.7 T.P.8		Adjust for 580mV		
					4	Tape: Nor.	VR503 VR504	T.P.7 T.P.8		Adjust for 580mV
				Tape: Metal	VR515 VR516			F 20~19000Hz Input: Frequency		
		Record/ Play Fre- quency		Tape: CrO ₂	VR511 VR512	T.P.9		E H Q E U S 20∿18000Hz Band, 17mV		
	(3)	(3) Response Adjust- ment	(3) Response Adjust- Tape: FeCr VR509 T.P.10		E P (300mV, N O C N −25 dB) Y S 20~18000Hz Adjust for					
					Tape: Nor.	VR505 VR506			flat of frequency Re-	
	When the frequency response becomes up or down because of unevenness of the head or tape runr readjust following instruction. Refer to Figure 15, 17. 1. Up or down less than 10 KHz. CrO₂ VR511, 512 PEQ. Seq. VR515 and VR515 and VR516 (Match)				VR511, 512 EQ					

Step	De	escription	Mode	Adjust Points	Test Points	Connection Instruction	Remarks
10	2. Up or Down about 14 KHz. Refer to Figure 16, 17. CrO ₂ VR517, 518 Bias FeCr VR522 Nor VR521						VR522 - Dias
	Bias 7 Adjus	Trap stment	Rec/Play Tape: Metal NR: C position		T.P.7 T.P.8	Figure 13	Test Signal Input : 400 Hz, 17mV (300mV —25 dB)
11	(1)	Pre Amp.		L251 L252			Adjust for min. output
	(2)	Dolby		L351 L352			Adjust for min. output

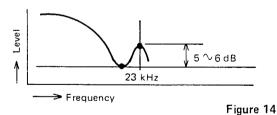
Note: Bias: OFF

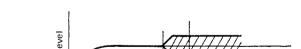
Remove "A" connector from the master P.C. Board to the erase head.



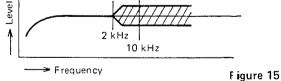
Frequency Respose

• Playback EQ Frequency Response.





When changing under 10 kHz, adjust the EQ volume.



When changing around 14 kHz, adjust the bias volume.

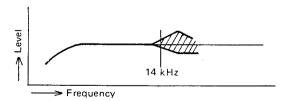
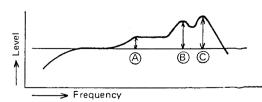


Figure 16

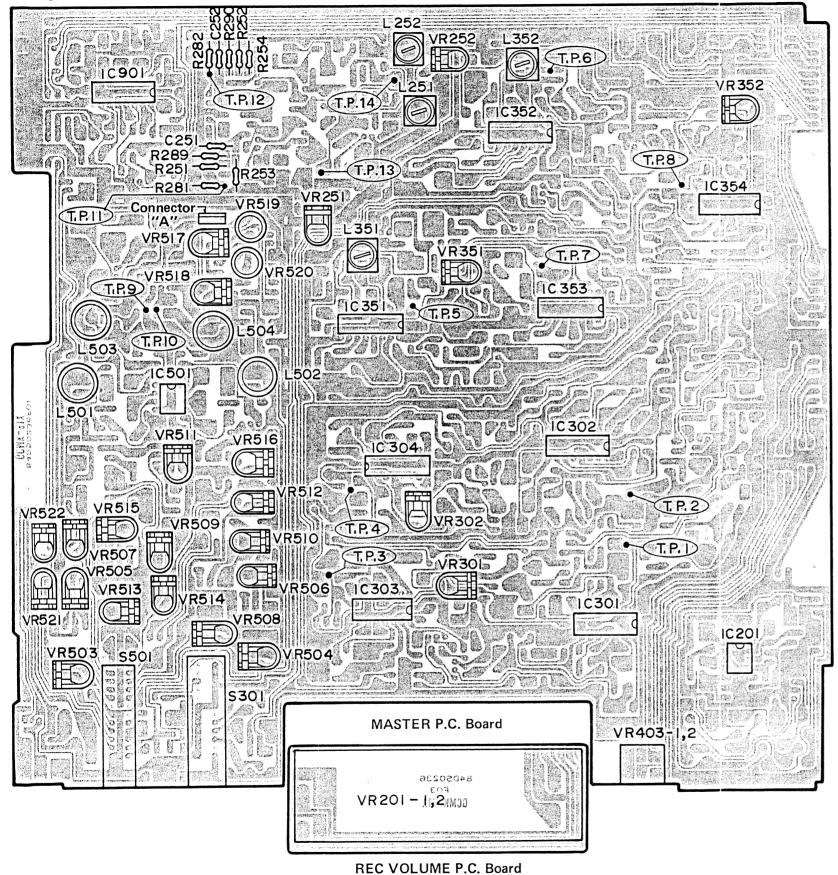
• Examples: R/P Frequency Response

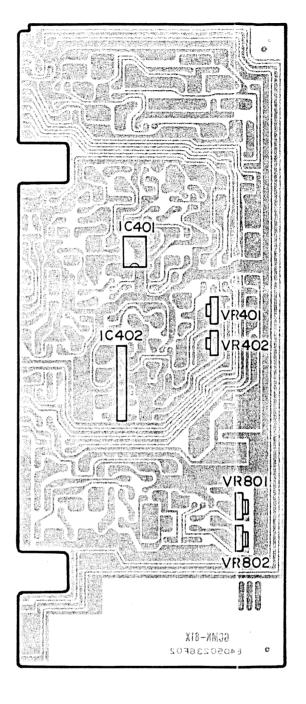


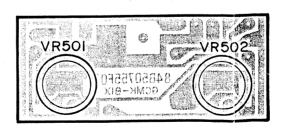
- A. Flattens with EQ volume.
- B. Flattens with bias volume.
- O. Check the peak point of playback and recording.

Figure 17

Adjustment Locations





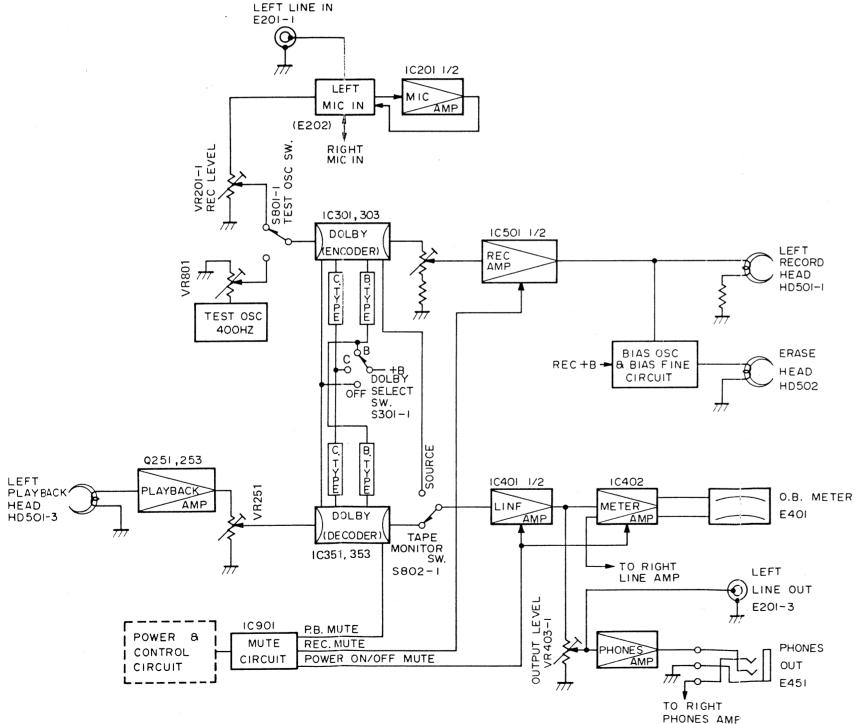


REC CAL P.C. Board

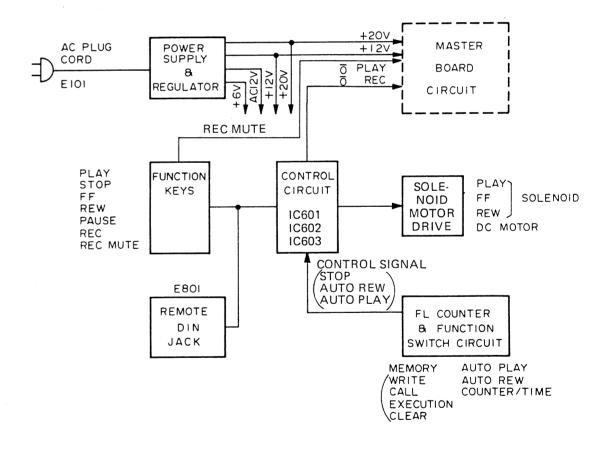
ADJUSTMEN	ADJUST- MENT POINTS.	
Playback Le	VR251 VR252 VR351 VR352	
Playback EC	C251 C252 R251 R252 R253 R254 R289 R290	
Rec Level		VR201-1 VR201-2 VR301 VR302
Level Meter		VR401 VR402
Test OSC	and a second	VR801 VR802
Rec Peak		L501 L502
Bias Trap	L503 L504 L251 L252 L351 L352	
Rec Bias	(Metal)	VR519 VR520
	(CrO ₂)	VR517 VR518
	(FeCr)	VR522
	(Nor.)	VR521
Rec/Play Output Level	(Metal)	VR513 VR514
	(CrO ₂)	VR501 VR502
	(FeCr)	VR507 VR508
	(Nor.)	VR503 VR504
Rec/Play Frequency Response	(Metal)	VR515 VR516
ineshouse	(CrO ₂)	VR511 VR512
	(FeCr)	VR509 VR510
	(Nor.)	VR505 VR506

Block Diagram

MASTER BOARD



POWER & CONTROL



Replacement of Mechanical Parts

Removal of Cassette Deck

Prior to Replacement Procedures, remove the cassette deck assembly according to "Removal of Cassette Deck" on page 5.

Replacement of Head

- (1) Remove two screws marked "★" from the cassette door bracket of the cassette deck as shown in Figure 18 and the cassette door can be removed.
- (2) Remove two screws marked "O" and wires from both sides of the R/P head "A" as shown in Figure 19, and it can be removed, with head P.C. Board. Remove the head from the P.C. Board with a soldering iron.
 - Remove two screws marked "•" and wires from both sides of the erase head "B" as shown in Figure 19, and it can be removed.
- (3) After finishing assembling, adjust head azimuth, height and tilt angle.
 - Apply screw-lock after adjustment.

Replacement of Belt and Flywheel

- (1) Remove screw marked " " and the motor bracket, two belts and the flywheel can be removed as shown in Figure 20.
- (2) After replacing the belt and flywheel, clean them with isopropyl alcohol.
- (3) After finishing assembling, confirm tape speed and wow/flutter with test tape (MTT-111).

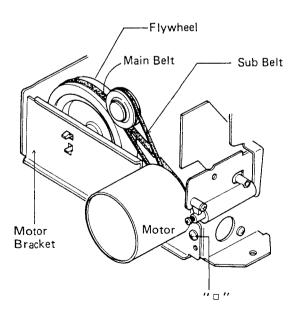


Figure 20

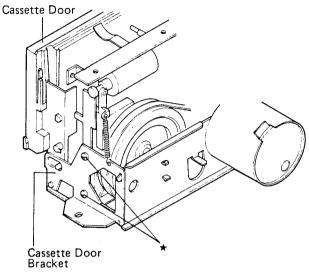
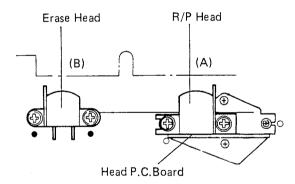


Figure 18



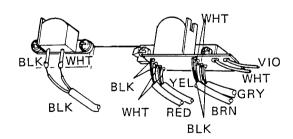


Figure 19

Replacement of Motor

- (1) Remove a screw marked "□" as shown in Figure 20 and two screws marked "★" and two wires (white, white/red) from motor side as shown in Figure 21, and the motor can be removed.
- (2) After finishing assembling, confirm tape speed and wow/flutter with test tape (MTT-111).

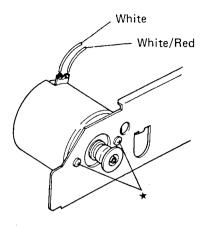


Figure 21

Replacement of Pinch Roller

- (1) Remove a washer to take off pinch roller assembly from the cassette deck as shown in Figure 22.
- (2) After replacing the pinch roller, clean it with isopropyl alcohol.
- (3) After finishing assembling, confirm tape speed and wow/flutter with test tape (MTT-111).

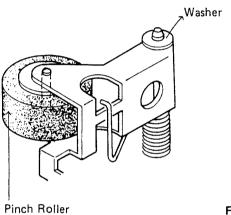


Figure 22

Trouble Shooting Guide

Symptom	Possible Cause	Remedy	
No power.	1. Defective power switch (S101).	1. Replace switch.	
	2. Disconnected Fuse (F101 \sim 103). (For multi-voltage model only).	2. Replace fuse.	
	3. Defective DC supply block.	3. Check and repair DC power.	
	4. Defective power connections.	4. Check and repair wiring.	
Capstan shaft does not rotate.	Main belt out of place or its disconnection.	1. Reinstall or replace main belt.	
	2. Defective motor.	2. Replace motor.	
	3. Burning of flywheel shaft.	3. Lubricate or replace flywheel shaft.	

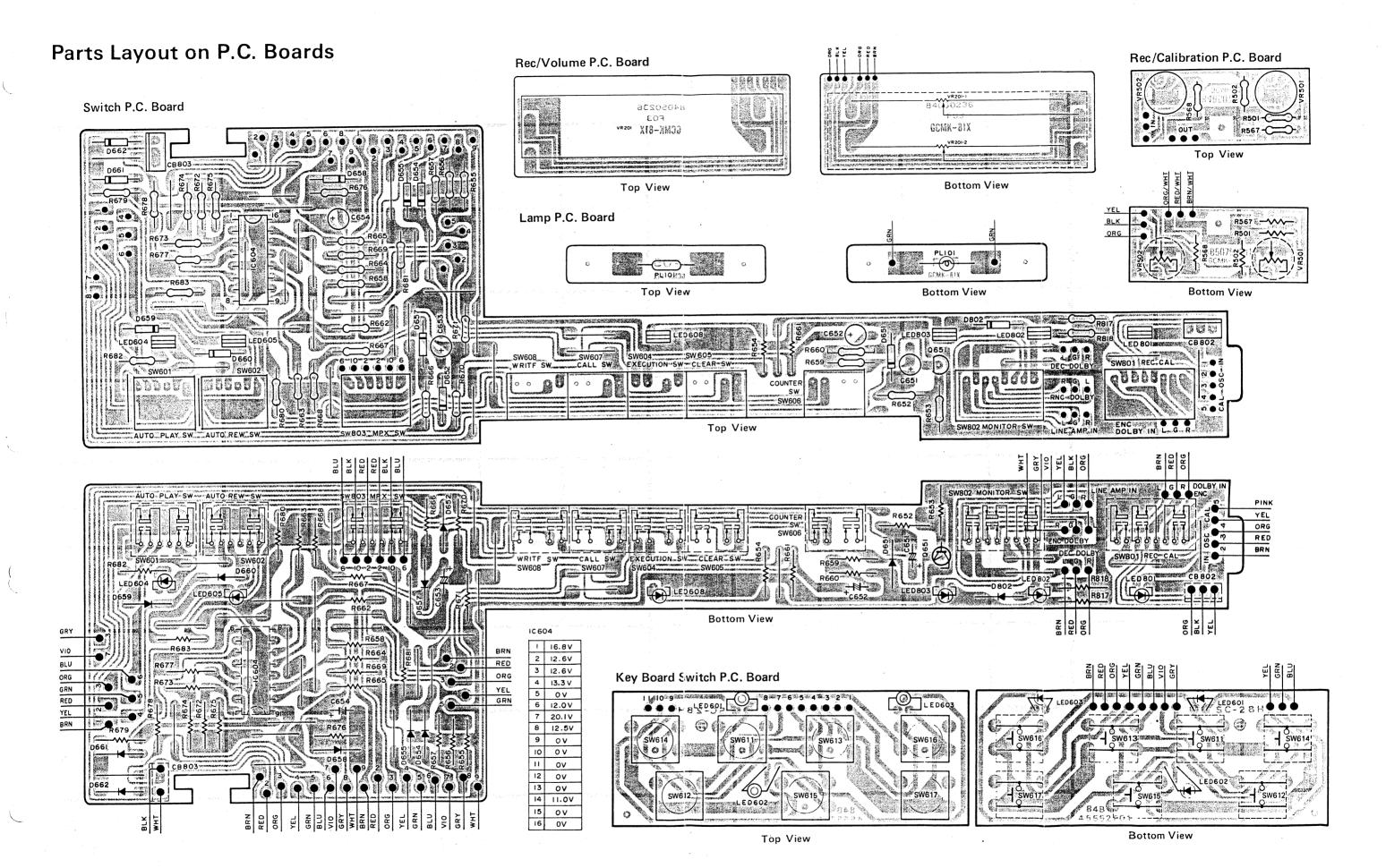
Symptom	Possible Cause	Remedies
Head base does not go up.	 Defective play solenoid (SL1). Defective control circuit. Deformation of spring plate. 	1. Replace play solenoid. 2. Check and repair. 3. Modify spring plate.
		Solenoid Arm Solenoid Arm Gear Spring Plate
	4. Deformation of assist base stopper.	4. Modify the angle of bending part of assist base stopper.
		Bending Part
	More than 90°	Assist Base
Cassette tape does not run. (No taking up operation).	 Sub belt out of place or its disconnection. Slippage of play idler. Defective take-up reel. 	 Reinstall or replace sub belt. Clean play idler. Replace take-up reel.
		ake-up Reel



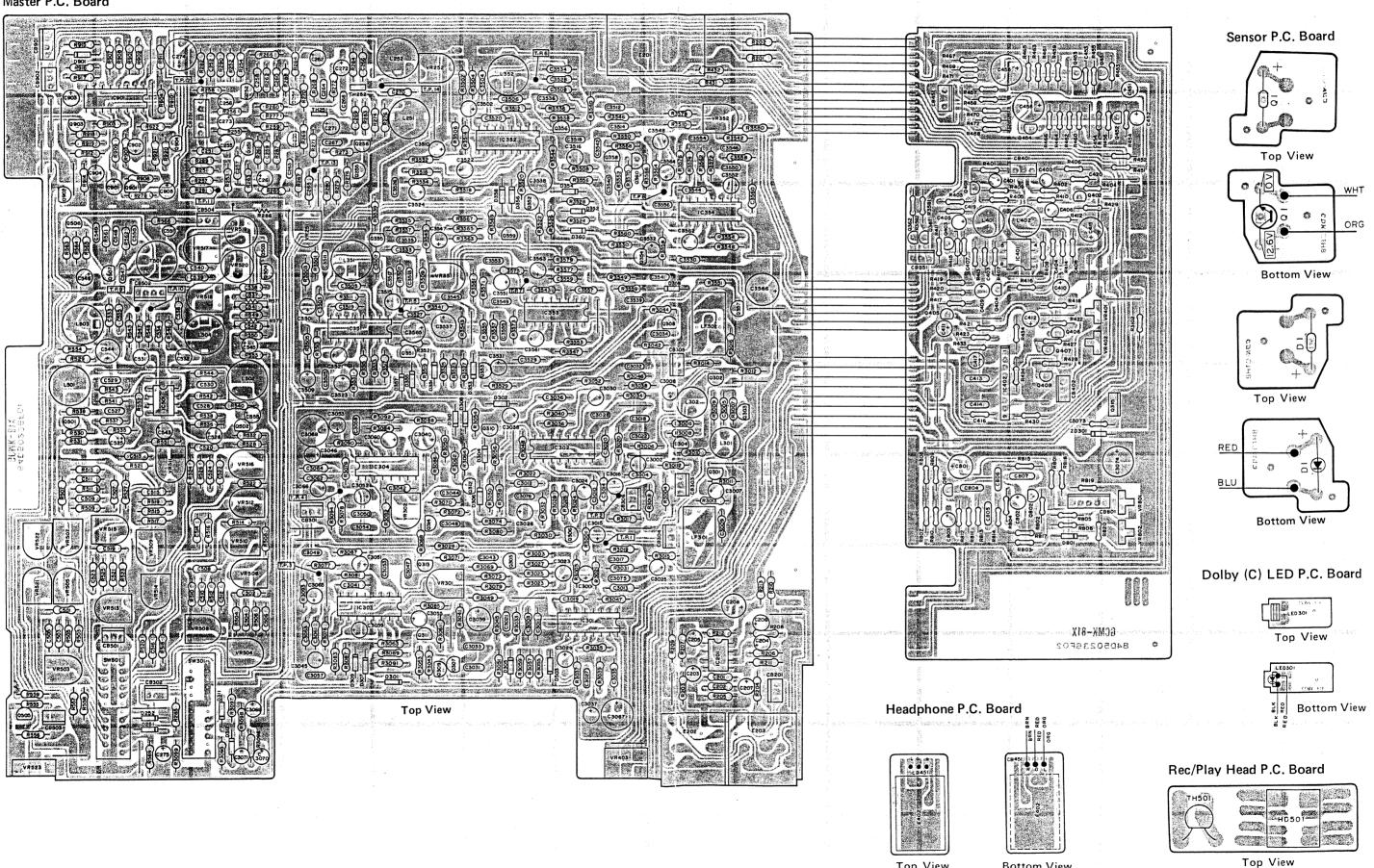
Symptom	Possible Cause	Remedies
FF/REW does not function.	Defective FF (SL3)/REW (SL2) solenoids. Defective control circuit.	 Replace them. Check and repair.
Excessive wow/flutter.	 Defective flywheel assembly. Defective motor. Defective drive belt. Defective pinch roller assembly. Slippage between tape and pinch roller. Swing of center clutch. Swing of back tension. 	 Replace flywheel assembly. Replace motor. Replace drive belt. Replace pinch roller assembly. Clean pinch roller. Replace center clutch. Modify back tension spring and apply grease on the spring plate.
	,	Apply grease here Spring plate Chassis
Photo sensor mismoves during PLAY FF or REW mode.	 Misdirection of radiational and receptional elements (Q1, D1). Defective elements (Q1, D1). 	Fix radiational and receptional elements on the best suitable position. Exchange elements.
		P.C. Board Element

Symptom	Possible Cause	Remedies
Photo sensor (electric counter) Overruns.	 Defective brake on reel plate. Brake arm does not slide smoothly. Foreign substance is adhered to brake. 	 Replace brake. Apply grease. Take off foreign substance.
Playback does not function.	 Dirty recording/playback head. Defective recording/playback head. Disconnected wire between recording/playback head and playback amplifier. Defective playback level adjustment volumes (VR251, 252, 351, 352) or their slippage. Defective playback amplifier. Defective Dolby circuit. Defective contact of monitor switch (S802) or its defect. Defective muting circuit. Defective output level volume (VR403). Defective contact of line-out jack of its defect. 	 Clean head. Replace head. Check wiring and repair. Readjust or replace volumes. Repair or replace. Replace volume. Repair or replace.
Erasing does not function. (No signal input)	 Defective rec. inh. switch (S2). Removal of safety tabs of cassette tape. Dirty erase head. Defective erase head. Wire disconnection to erase head. Defective bias OSC. Defective bias OSC trans. 	 Replace switch. Fix tabs. Clean head. Replace head. Check wiring and repair. Check and repair. Replace trans.
Recording does not function.	 Defective contact of line-in jack or its defect. Defective contact of mic jack or its defect and defect of mic amplifier. Defective rec volume (VR201). Defective contact of rec. cal. switch (S801) or its defect. Defective Dolby circuit. Slippage of rec. level adjusting volumes (VR301, 302) or their defect. 	 Repair or replace. Repair or replace. Replace volume. Repair or replace. Repair or replace. Readjust or replace.

Symptom	Possible Cause	Remedies
	7. Slippage of rec/play output level adjusting volumes (VR501, 502, 503, 504, 507, 508, 513, 514) or their defect.	7. Readjust or replace.
	8. Defective rec. amplifier.	8. Repair or replace.
	9. Slippage of rec. bias adjusting volumes (VR517 \sim 522) or their defect.	9. Repair or replace.
	10. Disconnected wire between recording/playback head and record amplifier.	10. Check wiring and repair.
	11. Dirty recording/playback head.	11. Clean head.
	12. Defective recording/playback head.	· 12. Replace head.
Distorted Sound.	Distortion of input signal.	Check input signal.
	2. Level-over of input signal.	2. Lower input level.
	3. Bias is too small or not flowing.	3. Adjust to suitable bias.
	4. Misposition of rec. bias adjusting volumes (VR517 \sim 522).	4. Adjust to suitable bias.
	5. Large distortion of bias waveforms.	5. Check bias OSC.
	6. Magnetization of recording/ playback head.	6. Demagnetize with head eraser.
	7. Dirty recording/playback head.	7. Clean head.

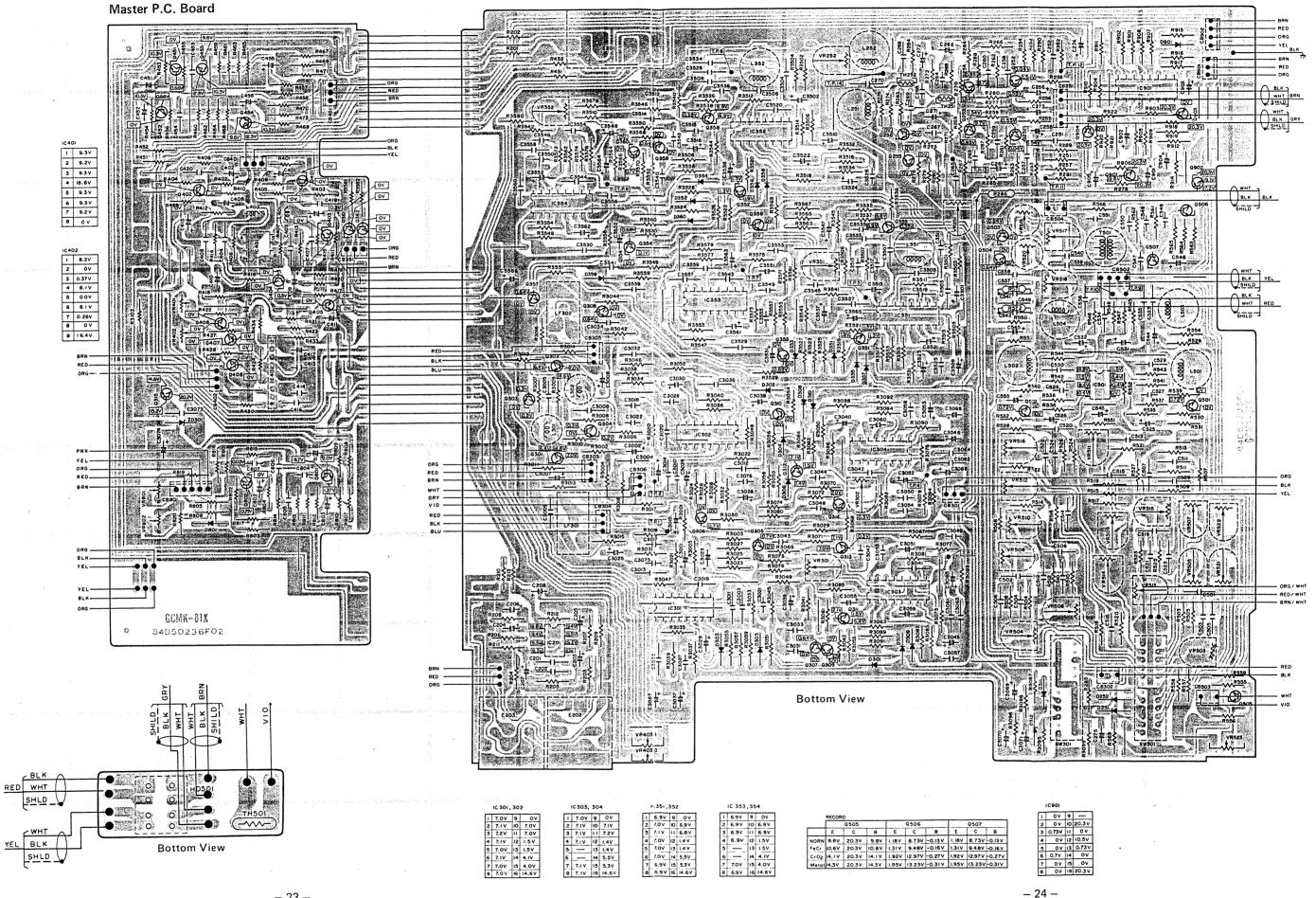


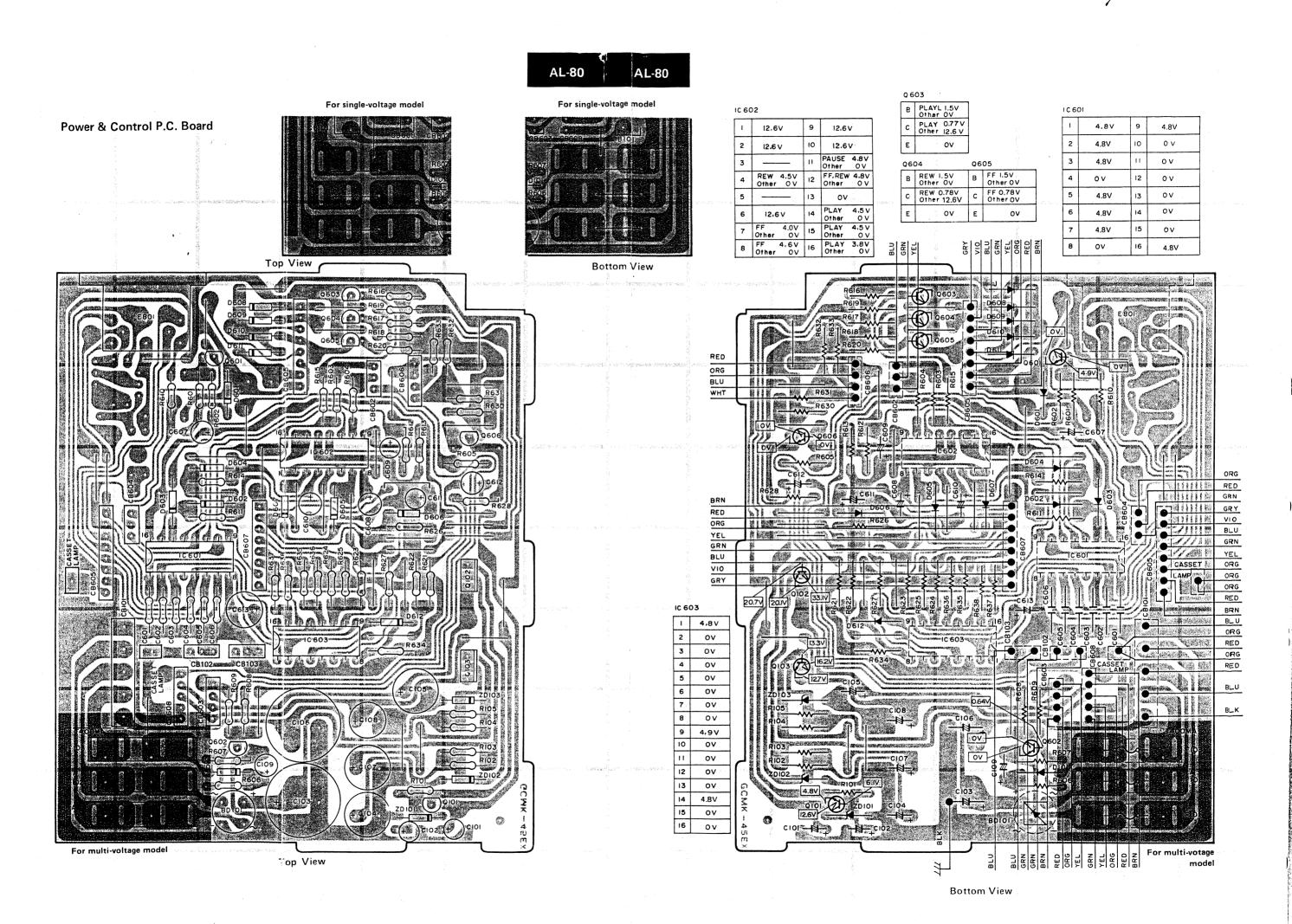
Master P.C. Board

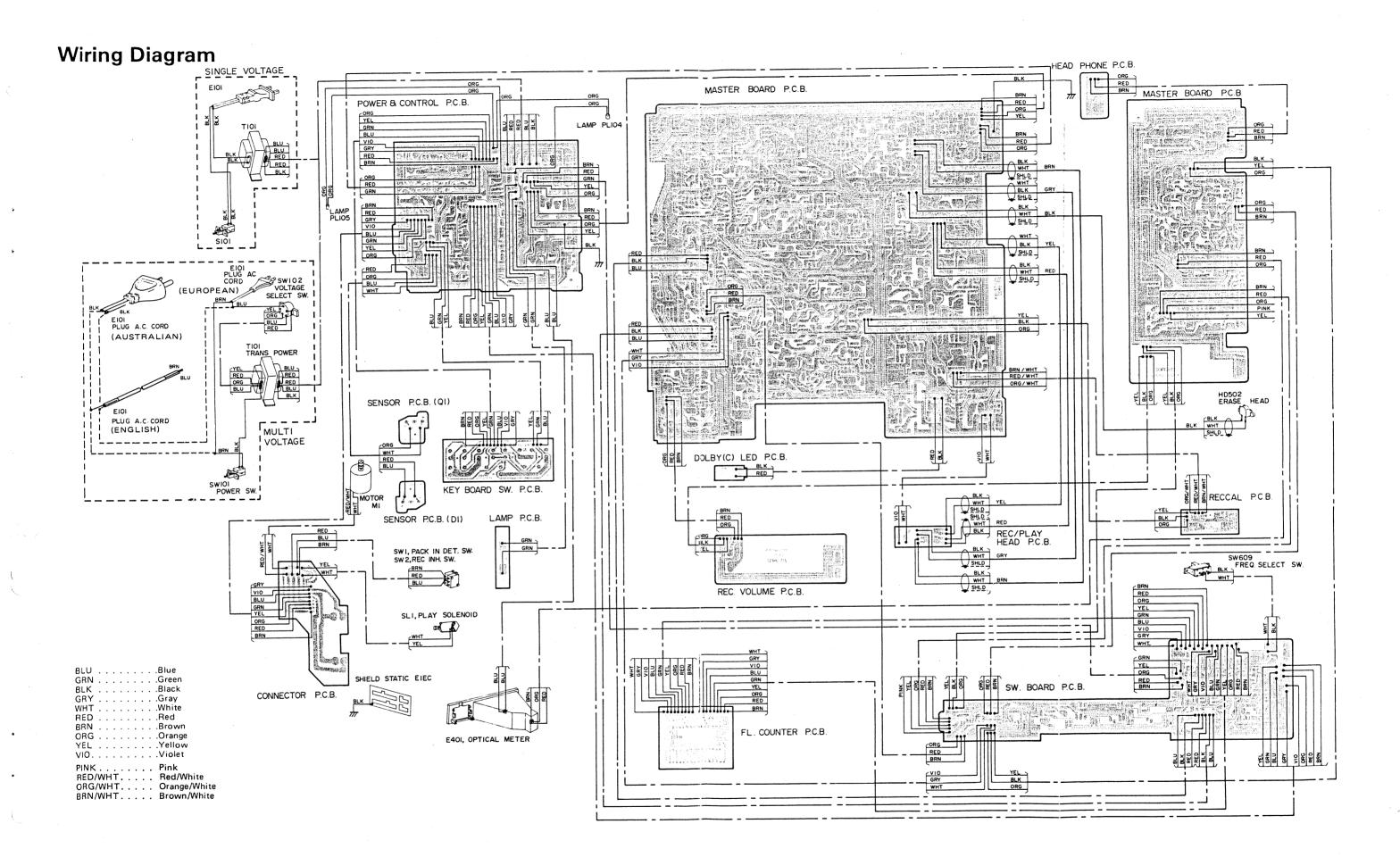


Bottom View

Top View



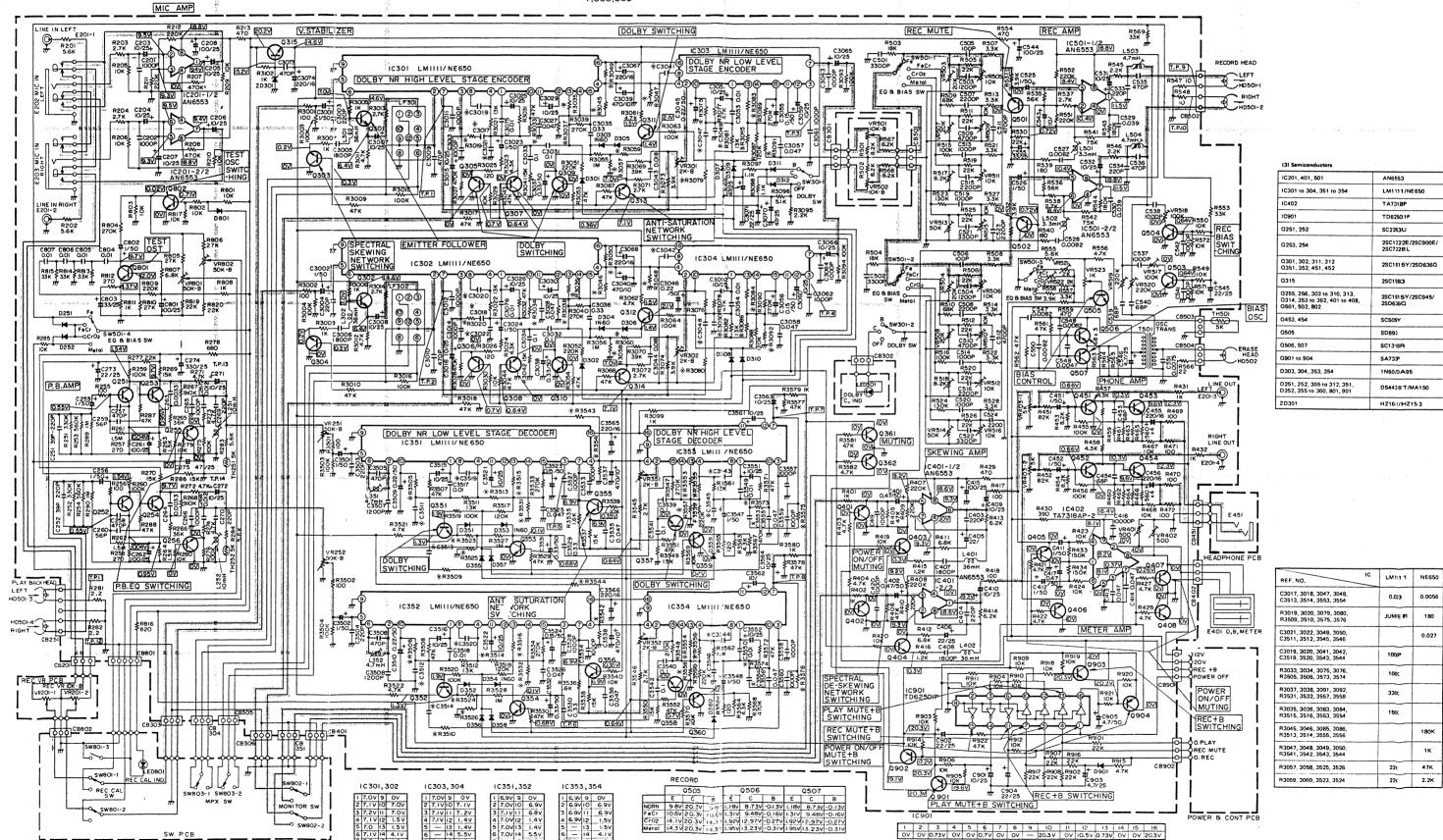


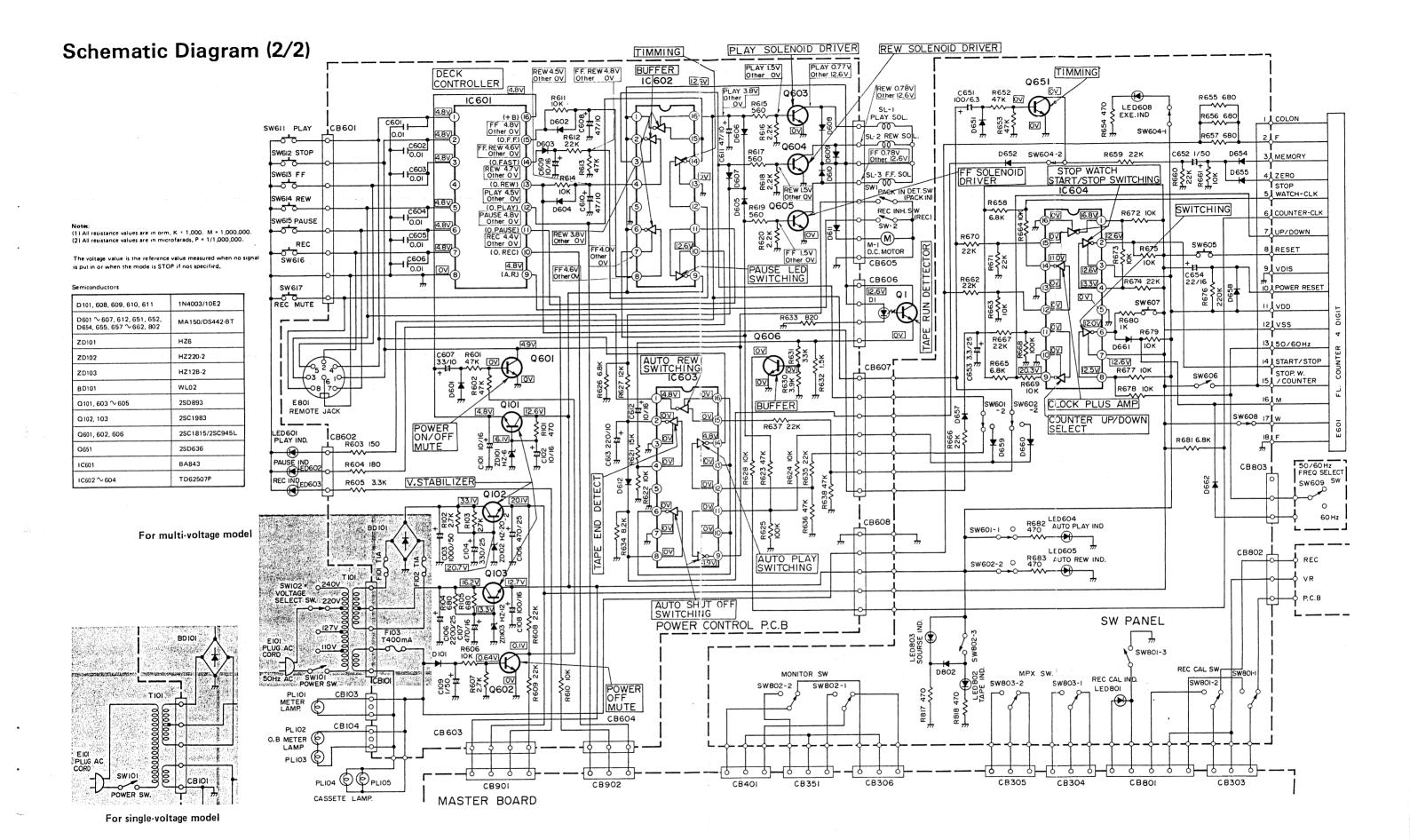


Schematic Diagram (1/2)

NOTES

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$





Electrical Parts List Resistors (All resistors are carbon film, ¼W, ±5% unless otherwise noted.) uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description
	Master P.	C.B. Assembly
IC's		
IC201	51T50235F01	AN6553 ,
┌ IC301	51S47808F01	Dolby LM1111A
IC302	51S47808F01	Dolby LM1111A
IC303	51S47808F01	Dolby LM1111A
IC304	51S47808F01	Dolby LM1111A
IC351	51S47808F01	Dolby LM1111A
1C352	51S47808F01	Dolby LM1111A
IC353	51S47808F01	Dolby LM1111A
IC354	51S47808F01	Dolby LM1111A
R3033	6S40106T14	Res., C.F. 100K ohm
Deser	CC40100T14	Pos C E 100K ohm
R3034	6S40106T14	Res., C.F. 100K ohm Res., C.F. 150K ohm
R3035	6S44594P18	Res., C.F. 150K ohm
R3036	6S44594P18	ł
R3037	6S44594P26 6S44594P26	Res., C.F. 330K ohm Res., C.F. 330K ohm
R3038	6544594726	hes., C.F. 330K offini
R3057	6S44593P97	Res., C.F. 22K ohm
R3058	6S44593P97	Res., C.F. 22K ohm
R3059	6S44593P97	Res., C.F. 22K ohm
R3060	6S44593P97	Res., C.F. 22K ohm
R3075	6S40106T14	Res., C.F. 100K ohm
R3076	6S40106T14	Res., C.F. 100K ohm
R3083	6S44594P18	Res., C.F. 150K ohm
R3084	6S44594P18	Res., C.F. 150K ohm
R3091	6S44594P26	Res., C.F. 330K ohm
R3092	6S44594P26	Res., C.F. 330K ohm
R3505	6S40106T14	Res., C.F. 100K ohm
R3506	6S40106T14	Res., C.F. 100K ohm
R3515	6S44594P18	Res., C.F. 150K ohm
R3516	6S44594P18	Res., C.F. 150K ohm
R3523	6S44593P97	Res., C.F. 22K ohm
R3524	6S44593P97	Res., C.F. 22K ohm
R3525	6S44593P97	Res., C.F. 22K ohm
R3526	6S44593P97	Res., C.F. 22K ohm
R3531	6S44594P26	Res., C.F. 330K ohm
R3532	6S44594P26	Res., C.F. 330K ohm 1/8W
Daeta	6S44594P18	Res., C.F. 150K ohm 1/8W
R3553	6S44594P18	Res., C.F. 150K ohm 1/8W
R3554 R3557	6S44594P26	Res., C.F. 330K ohm 1/8W
R3558	6S44594P26	Res., C.F. 330K ohm 1/8W
R3573	6S40106T14	Res., C.F. 100K ohm 1/8W
1135/5	33.3.33.11	

Symbol No.	Part No.	Description
R3574	6S40106T14	Res., C.F. 100K ohm 1/8W
C3017	8S40656F19	Cap., Mylar 0.033 uF
C3018	8S40656F19	Cap., Mylar 0.033 uF
C3019	8S44505P49	Cap., Ceramic 1000 pF
C3020	8S44505P49	Cap., Ceramic 1000 pF
C3041	8S44505P49	Cap., Ceramic 1000 pF
C3042	8S44505P49	Cap., Ceramic 1000 pF
C3047	8S40656F19	Cap., Mylar 0.033 uF
C3048	8S40656F19	Cap., Mylar 0.033 uF
C3513	8S40656F19	Cap., Mylar 0.033 uF
C3514	8S40656F19	Cap., Mylar 0.033 uF
C3519	8S44505P49	Cap., Ceramic 1000 pF
C3520	8S44505P49	Cap., Ceramic 1000 pF
C3543	8S44505P49	Cap., Ceramic 1000 pF
C3543	8S44505P49	Cap., Ceramic 1000 pF
C3544	6544505F49	Cap., Ceramic 1000 pr
C3553	8S40656F19	Cap., Mylar 0.033 uF
C3554 or	8S40656F19	Cap., Mylar 0.033 uF
IC301	51T40114T03	NE650N
IC302	51T40114T03	NE650N
IC303	51T40114T03	NE650N
IC304	51T40114T03	NE650N
IC351	51T40114T03	NE650N
10050	54540444500	NEGEON
IC352	51T40114T03	NE650N
IC353	51T40114T03	NE650N
IC354	51T40114T03	NE650N
R3019	6S44593P47	Res., C.F. 180 ohm
R3020	6S44593P47	Res., C.F. 180 ohm
R3045	6S44594P20	Res., C.F. 180K ohm
R3046	6S44594P20	Res., C.F. 180K ohm
R3047	6S44593P65	Res., C.F. 1K ohm
- 1		-
		1

Symbol No.	Part No.	Description
R3050	6S44593P65	Res., C.F. 1K ohm
R3057	6S44594P06	Res., C.F. 47K ohm
R3058	6S44594P06	Res., C.F. 47K ohm
R3059	6S44593P73	Res., C.F. 2.2K ohm
1		1
R3060	6S44593P73	Res., C.F. 2.2K ohm
R3079	6S44593P47	Res., C.F. 180 ohm
R3080	6S44593P47	Res., C.F. 180 ohm
R3085	6S44594P20	Res., C.F. 180K ohm
R3086	6S44594P20	Res., C.F. 180K ohm
R3509	6S44593P47	Res., C.F. 180 ohm
R3510	6S44593P47	Res., C.F. 180 ohm
R3513	6S44594P20	Res., C.F. 180K ohm
R3514	6S44594P20	1
1 1		
R3523	6S44593P73	Res., C.F. 2.2K ohm
R3524	6S44593P73	Res., C.F. 2.2K ohm
R3525	6S44594P06	Res., C.F. 47K ohm
R3526	6S44594P06	Res., C.F. 47K ohm
R3541	6S44593P65	Res., C.F. 1K ohm
R3542	6S44593P65	Res., C.F. 1K ohm
R3543	6S44593P65	Res., C.F. 1K ohm
D2544	CCAAFOODCE	D- 05 41/
R3544	6S44593P65	Res., C.F. 1K ohm
R3555	6S44594P20	Res., C.F. 180K ohm
R3556	6S44594P20	Res., C.F. 180K ohm
R3575	6S44593P47	Res., C.F. 180 ohm
R3576	6S44593P47	Res., C.F. 180 ohm
C3017	8S40656F10	Cap., Mylar 0.0056 uF
C3018	8S40656F10	Cap., Mylar 0.0056 uF
C3021	8S40656F18	Cap., Mylar 0.027 uF
C3022	8S40656F18	Cap., Mylar 0.027 uF
C3047	8S40656F10	Cap., Mylar 0.0056 uF
C3048	8S40656F10	Cap., Mylar 0.0056 uF
C3049	8S40656F18	Cap., Mylar 0.027 uF
C3050	8S40656F18	Cap., Mylar 0.027 uF
C3511	8S40656F18	Cap., Mylar 0.027 uF
C3512	8S40656F18	Cap., Mylar 0.027 uF
C3513	8S40656F10	Cap., Mylar 0.0056 uF
C3514	8S40656F10	Cap., Mylar 0.0056 uF
C3545	8S40656F18	Cap., Mylar 0.027 uF
C3546	8S40656F18	Cap., Mylar 0.027 uF
C3553	8S40656F10	Cap., Mylar 0.0056 uF
C3553	8S40656F10	Cap., Mylar 0.0056 uF
-		
IC401	51T50235F01	AN6553
IC402	51T41803U01	TA7318AP-2
1055		ANCEED
IC501 IC901	51T50235F01 51T50259F01	AN6553 TD62501P

Symbol No.	Part No.	Description
Transis	stors	
Q251	48T41195U04	2SC2263-U
Q252	48T41195U04	2SC2263-U
Q253	48S40246G01	2SC732-BL
or	48S40149P01	2SC900-E
or	48T40021U03	2SC1327-U
	48S47708F04	2SC1842E
or	48S47706F04	2SC1843E
Q254	48S40246G01	2SC732-BL
or	48S40149P01	2SC900-E
or	48S40929P01	2SC1222-E
	48S47708F04	2SC1842E
or	48S47706F04	2SC1843E
Q255	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q256	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
0201	4074050550	2001015 V
Q301	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q302	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q303	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q304	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q305	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q306	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q307	48S44578J01	2SC945L-P
or .	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q
Q308	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y
1	48T40627U01	
or	70140027001	2SD636-Q
	1	

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Q309	48S44578J01	2SC945L-P	Q361	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y	or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q	or	48T40627U01	2SD636-Q
Q310	48S44578J01	2SC945L-P	Q362	48S44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y	or	48T43525F02	2SC1815-Y
or	48T40627U01	1	or	48T40627U01	2SD636-Q
0.	48140027001	2SD636-Q		40140027001	230030-0
Q311	48T43525F02	2SC1815-Y	Q401	48S44578J01	2SC945L-P
or	48T40627U01	2SD636-Q	or	48T43525F02	2SC1815-Y
Q312	48T43525F02	2SC1815-Y	or	48T40627U01	2SD636-Q
or	48T40627U01	2SD636-Q	Q402	48S44578J01	2SC945L-P
			or	48T43525F02	2SC1815-Y
Q313	48S44578J01	2SC945L-P	or	48T40627U01	2SD636-Q
or	48T43525F02	2SC1815-Y			
or	48T40627U01	2SD636-Q	Q403	48S44578J01	2SC945L-P
Q314	48S44578J01	2SC945L-P	or	48T43525F02	2SC1815-Y
or	48T43525F02	2SC1815-Y	or	48T40627U01	2SD636-Q
or	48T40627U01	2SD636-Q	Q404	48S44578J01	2SC945L-P
			or	48T43525F02	2SC1815-Y
Q315	48T40469U01	2SC1983	or	48T40627U01	2SD636-Q
Q351	48T43525F02	2SC1815-Y			
or	48T40627U01	2SD636-Q	Q405	48S44578J01	2SC945L-P
Q352	48T43525F02	2SC1815-Y	or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q	or	48T40627U01	2SD636-Q
01	40140027001	250000-4	Q406	48S44578J01	2SC945L-P
Q353	48S44578J01	2SC945L-P	or	48T43525F02	2SC1815-Y
or	48544576501 48T43525F02	2SC1815-Y	or	48T40627U01	2SD636-Q
or	48T40627U01	2SD636-Q		10110027001	200000 4
Q354	48S44578J01	2SC945L-P	Q407	48S44578J01	2SC945L-P
	48T43525F02	2SC1815-Y	or	48T43525F02	2SC1815-Y
or			or	48T40627U01	2SD636-Q
or	48T40627U01	2SD636-Q	Q408	48S44578J01	2SC945L-P
Q355	40044570104	2000451 B	or	48T43525F02	2SC1815-Y
	48S44578J01	2SC945L-P	or	48T40627U01	2SD636-Q
or	48T43525F02	2SC1815-Y	"	40140027001	235030-0
or	48T40627U01	2SD636-Q	Q451	48T43525F02	2SC1815-Y
Q356	48S44578J01	2SC945L-P	or	48T40627U01	2SD636-Q
or	48T43525F02	2SC1815-Y	Q452	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q	1 1	48T40627U01	
			0r Q453		2SD636-Q
Q357	48S44578J01	2SC945L-P	Q453	48S43239G02 48S43239G02	2SC509-Y
or	48T43525F02	2SC1815-Y	454	48543239602	2SC509-Y
or	48T40627U01	2SD636-Q	OEO1	40044570104	0000451 B
Q358	48S44578J01	2SC945L-P	Q501	48\$44578J01	2SC945L-P
or	48T43525F02	2SC1815-Y	or	48T43525F02	2SC1815-Y
or	48T40627U01	2SD636-Q	or	48T40627U01	2SD636-Q
			Q502	48S44578J01	2SC945L-P
Q359	48S44578J01	2SC945L-P	or	48T43525F02	2SC1815-Y
or	48T43525F02	2SC1815-Y	or	48T40627U01	2SD636-Q
or	48T40627U01	2SD636-Q			
Q360	48S44578J01	2SC945L-P			
or	48T43525F02	2SC1815-Y			
Or	48T40627U01	2SD636-Q			

Symbol No.	Part No.	Description
Q503 or Q504 or Q505 or	48T41196U03 48T43394P01 48T41196U03 48T43394P01 48T41365F03 48T41365F02	2SC1980-T 2SC1890-E-F 2SC1980-T 2SC1890-E-F 2SD893-R 2SD893-Q
Q506 Q507 Q801 or Q802 or	48T40832F03 48T40832F03 48T41196U03 48T43394P01 48S44578J01 48T43525F02 48T40627U01	2SC1318NC-R 2SC1318NC-R 2SC1890-T 2SC1890-E,-F 2SC945L-P 2SC1815-Y 2SD636-Q
Q901 Q902 Q903 Q904	48T40081T03 48T40081T03 48T40081T03 48T40081T03	2SA733(P) 2SA733(P) 2SA733(P) 2SA733(P)
Dioc	des	
D251 or D252 or D301 or	48T51582F01 48T51881F01 48T51582F01 48T51881F01 48T51582F01 48T51881F01	MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT
D302 or D303 or D304 or	48T51582F01 48T51881F01 48B41768G01 48T43982F01 48B41768G01 48T43982F01	MA-150 DS442-BT 1N60 GE OA95 1N60 GE OA95

Symbol No.	Part No.	Description
D305	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D306	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D307	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D308	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D309	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D310	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D311	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D312	48T51582F01	MA-150
or DOE1	48T51881F01	DS442-BT
D351	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D352	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D353	48B41768G01	1N60
or	48T43982F01	GE OA95
D354	48B41786G01	1N60
or	48T43982F01	GE OA95
D355	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D356	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D357	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D358	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D359	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D360	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D801	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D901	48T51582F01	MA-150
or	48T51881F01	DS442-BT
ZD301	48T40150U72	Zener HZ15-3
or	48T40150U73	
1		

Symbol No.	Part No.	Description		
Coils				
L251 L252 L301 L302 L351	24T51914F02 24T51914F02 24T47741F01 24T47741F01 24T51914F01	Trap 10mH Trap 10mH 36mH 36mH Trap 4.7mH		
L352 L401 L402 L501 L502	24T51914F01 24T47741F01 24T47741F01 24S41199U07 24S41199U07 24T51914F01	Trap 4.7mH 36mH 36mH 3.3mH 3.3mH Trap 4.7mH		
L504	24T51914F01	Trap 4.7mH		
Transf	former & Thermis	tors		
T501 TH251 TH252	25T50643F01 48S42931U33 48S42931U33	O.S.C. 5.0K 5.0K		
Filter	s & Switches			
LF301 LF302 SW301 SW501	51T42537U01 51T42537U01 40T50490F01 40T50491F01	MPX LP-V20 MPX LP-V20 Rotary, SRZ S043S (Dolby) Rotary, SRZ S044S (Tape Select)		
Plate	& Jacks			
E201 E202 E203	9T50231F02 9T45549F02 9T45549F02	Phone 4P Microphone Microphone		
Capa	citors			
C201 C202 C203 C204	8S44505P49 8S44505P49 23S40657F17 23S40657F17	Ceramic, 1000 pF Ceramic, 1000 pF Electrolytic 10 uF/ 25V Electrolytic 10 uF/ 25V		
C205 C206 C207 C208	23S40657F17 23S40657F17 23S40657F17 23S40657F21	Electrolytic, 10 uF/25V Electrolytic, 10 uF/25V Electrolytic, 10 uF/25V Electrolytic, 100 uF/25V		

Symbol No.	Part No.	Des	scription
C251	21C41701J74	Ceramic	82 pF
or	21C41701J76	Ceramic	39 pF
or	21C41701J18	Ceramic	47 pF
or	21C41701J56	Ceramic	56 pF
or	21C41701J47	Ceramic	68 pF
or	21C41701J57	Ceramic	100 pF
or	21C41701J88		·
	21C41701J89	Ceramic	120 pF
or	21C41701J89	Ceramic	150 pF
or	21041701391	Ceramic	220 pF
C252	21C41701J74	Ceramic	82 pF
or	21C41701J76	Ceramic	39 pF
or	21C41701J18	Ceramic	47 pF
or	21C41701J56	Ceramic	56 pF
or	21C41701J47	Ceramic	68 pF
or	21C41701J57	Ceramic	100 pF
or	21C41701J88	Ceramic	120 pF
or	21C41701J89	Ceramic	150 pF
or	21C41701J91	Ceramic	220 pF
C255	23T40475U05	Electrolytic	1 uF/50V
C256	23T40475U05	Electrolytic	1 uF/50V
C257	8S44505P45	Ceramic	470 pF
C258	8S44505P45	Ceramic	470 pF
C259	8S44505P31	Ceramic	56 pF
C260	8S44505P31	Ceramic	56 pF
C261	23S40657F21	Electrolytic	100 uF/25V
C262	23S40657F21	Electrolytic	100 uF/25V
C263	8S40656F07	Mylar	0.0033 uF
C264	8S40656F07	Mylar	0.0033 uF
C265	8S44505P49	Ceramic	1000 pF
C266	8S44505P49	Ceramic	1000 pF
C267	8S40656F14	Mylar	0.012 uF
C268	8S40656F14	Mylar	0.012 uF
C269	8S44505P41	Ceramic	220 pF
C270	8S44505P41	Ceramic	220 pF
C271	23S40657F17	Electrolytic	10 uF/25V
C272	23S40657F17	Electrolytic	
C272	23S40657F18	Electrolytic	
C274	23S41198U49	Electrolytic	330 uF/25V
0075	23S40657F20	Flooring to a	47 uF/25V
C275		Electrolytic	
C401	23S40657F27	Electrolytic	
C402	23S40657F27	Electrolytic	0.47 uF/50V
C403	8S44505P41	Ceramic	220 pF
C404	8S44505P41	Ceramic	220 pF

Symbol No.	Part No.	Des	cription	Symbol No.	Part No.	De	escription
C405	23S40657F18	Electrolytic	22 uF/25V	C527	8S40656F12	Mylar	0.0082 uF
C406	23S40657F18	Electrolytic	22 uF/25V	C528	8S40656F12	Mylar	0.0082 uF
C407	8S44505P52	Ceramic	1800 pF	C529	8S40656F20	Mylar	0.039 uF
C408	8S44505P52	Ceramic	1800 pF	C530	8S40656F20	Mylar	0.039 uF
C409	23S40657F17	Electrolytic	10 uF/25V	C531	23S40657F17	Electrolytic	10 uF/25V
C410	23S40657F17	Electrolytic	10 uF/25V	C532	23S40657F17	Electrolytic	10 uF/25V
C411	23S40657F28	Electrolytic	1 uF/50V	C533	8S44505P41	Ceramic	220 pF
C412	23S40657F28	Electrolytic	1 uF/50V	C534	8S44505P41	Ceramic	220 pF
C413	8S40656F21	Mylar	0.047 uF	C535	8S44505P45	Ceramic	470 pF
C414	8S40656F21	Mylar	0.047 uF	C536	8S44505P45	Ceramic	470 pF
C415	23S40657F21	Electrolytic,	100 uF/25V	C537	8S44505P49	Ceramic	1000 pF
C416	8S44505P61	Ceramic	10000 pF	C538	8S44505P49	Ceramic	1000 pF
C417	23S40657F27	Electrolytic	0.47 uF/50V	C539	8S44505P33	Ceramic	68 pF/50V
C419	8S44505P49	Ceramic	1000 pF	C540	8S44505P33	Ceramic	68 pF/50V
C420	8S44505P49	Ceramic	1000 pF	C541	8S44505P49	Ceramic,	1000 pF
C451	23S40657F28	Electrolytic	1 uF/50V	C542	8S44505P49	Ceramic,	1000 pF
C452	23S40657F28	Electrolytic	1 uF/50V	C543	23S40657F17	Electrolytic	10 uF/25V
C453	8S44505P33	Ceramic	68 pF/50V	C544	23S40657F21	Electrolytic	100 uF/25V
C454	8S44505P33	Ceramic	68 pF/50V	C545	23S40657F18	Electrolytic	22 uF/25V
C455	23S41198U41	Electrolytic	220 uF/16V	C546	23S40657F16	Electrolytic	4.7 uF/25V
C456	23S41198U41	Electrolytic	220 uF/16V	C547	8S40656F12	Mylar	0.0082 uF
C501	8S44505P55	Ceramic	3300 pF	C548	8S40656F09	Mylar	0.0047 uF
C502	8S44505P55	Ceramic	3300 pF	C549	8S40656F12	Mylar	0.0082 uF
C503	8S44505P50	Ceramic	1200 pF	C550	8S40656F12	Mylar	0.0082 uF
C504	8S44505P50	Ceramic	1200 pF	C551	8T44481F34	Polypropyler	
C505	8S44505P37	Ceramic	100 pF	C555	23S40657F19	Electrolytic	33 uF/25V
C506	8S44505P37	Ceramic	100 pF	C801	23S40657F21	Electrolytic	100 uF/25V
C507	8S44505P53	Ceramic	2200 pF	C802	23S40657F28	Electrolytic	1 uF/5 O V
C508	8S44505P53	Ceramic	2200 pF	C803	23S40657F19	Electrolytic	33 uF/25V
C509	8S44505P57	Ceramic	4700 pF	C804	8S40656F13	Mylar	0.01 uF
C510	8S44505P57	Ceramic	4700 pF	C805	8S40656F13	Mylar	0.01 uF
C511	8S44505P57	Ceramic	4700 pF	C806	8S40656F13	Mylar	0.01 uF
C512	8S44505P57	Ceramic	4700 pF	C807	8S40656F13	Mylar	0.01 uF
C513	8S44505P49	Ceramic	1000 pF	C901	23S40657F17	Electrolytic	10 uF/2 5 V
C514	6S44505P49	Ceramic	1000 pF	C902	23S40657F18	Electrolytic	22 uF/25V
C515	8S44505P53	Ceramic	2200 pF	C903	23S40657F16	Electrolytic	4.7 uF/2 5 V
C516	8S44505P53	Ceramic	2200 pF	C903	23S40657F18	Electrolytic	22 uF/25V
C519	8S44505P49	Ceramic	1000 pF	C904	23S40657F16	Electrolytic	4.7 uF/25V
C520	8S44505P49	Ceramic	1000 pF	C3001	23S40657F28	Electrolytic	1 uF/5 O V
C521	8S44505P55	Ceramic	3300 pF	C3002	23S40657F28	Electrolytic	1 uF/5 O V
C522	8S44505P55	Ceramic	3300 pF	C3003	8S44505P41	Ceramic	220 pF
C523	8S44505P53	Ceramic	2200 pF	C3004	8S44505P41	Ceramic	220 pF
C524	8S44505P53	Ceramic	2200 pF	C3005	8S44505P52	Ceramic	1800 pF
C525	23S40657F28	Electrolytic	1 uF/50V	C3006	8S44505P52	Ceramic	1800 pF
C526	23S40657F28	Electrolytic	1 uF/50V	C3007	23S40657F17	Electrolytic	10 uF/2 5V

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Symbol No.	Part No.	Des	scription
C3008	23S40657F17	Electrolytic	10 uF/25V
C3009	8S44505P45	Ceramic	470 pF
C3010	8S44505P45	Ceramic	470 pF
C3011	8S44505P49	Ceramic	1000 pF
C3012	8S44505P49	Ceramic	1000 pF
00012	00445051 45	Ceraniic	1000 p1
C3013	8S44505P49	Ceramic	1000 pF
C3014	8S44505P49	Ceramic	1000 pF
C3015	23S40657F17	Electrolytic	10 uF/25V
C3016	23S40657F17	Electrolytic	10 uF/25V
C3023	23S40657F28	Electrolytic	1 uF/50V
C3024	23S40657F28	Electrolytic	1 uF/50V
C3025	23S40657F17	Electrolytic	10 uF/25V
C3026	23S40657F17	Electrolytic	10 uF/25V
C3027	8S40656F21	Mylar	0.047 uF
C3028	8S40656F21	Mylar	0.047 uF
C3029	23S40657F17	Electrolytic	10 uF/25V
C3029	23S40657F17	Electrolytic	10 uF/25V
C3030	8S40656F25	1	
		Mylar	0.1 uF
C3032	8S40656F25	Mylar	0.1 uF
C3033	8S40656F25	Mylar	0.1 uF
C3034	8S40656F25	Mylar	0.1 uF
C3035	8T50579F19	T.F.	0.33 uF
C3036	8T50579F19	T.F.	0.33 u F
C3037	23T40475U03	Electrolytic	0.33 uF/50V
C3038	23T40475U03	Electrolytic	0.33 uF/50V
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C3039	23S41198U55	Electrolytic	470 uF/10V
C3040	23S41198U55	Electrolytic	470 uF/10V
C3043	8S40656F16	Mylar	0.018 uF
C3044	8S40656F16	Mylar	0.018 uF
C3045	23T40475U02	Electrolytic	0.22 uF/50V
C3046	23T40475U02	Electrolytic	0.22 uF/50V
C3051	23S40657F17	Electrolytic	10 uF/25V
C3052	23S40657F 17	Electrolytic	10 uF/25V
C3052			
1	8S40656F13	Mylar	0.01 uF
C3054	8S40656F13	Mylar	0.01 uF
C3055	8T50579F15	T.F.	0.15 uF/50V
C3056	8T50579F15	T.F.	0.15 uF/50V
C3057	8S40656F21	Mylar	0.047 uF
C3058	8S40656F21	Mylar	0.047 uF
C3059	23S40657F17	Electrolytic	10 uF/25V
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C3060	23S40657F17	Electrolytic	10 uF/25V
C3061	8S44505P49	Ceramic	1000 pF
C3062	8S44505P49	Ceramic	1000 pF
C3063	8S44505P49	Ceramic	1000 pF
C3064	8S44505P49	Ceramic	1000 pF

				
Symbol No.	Part No.	Description		
C3065	23S40657F17	Electrolytic	10 uF/25V	
C3066	23S40657F17	Electrolytic	10 uF/25V	
C3067	23S41198U41	Electrolytic	220 uF/16V	
C3068	23S41198U41	Electrolytic	220 uF/16V	
C3069	23S40657F20	Electrolytic	47 uF/25V	
		,		
C3070	23S40657F20	Electrolytic	47 uF/25V	
C3071	23S40657F18	Electrolytic	22 uF/25V	
C3073	8S44505P45	Ceramic	470 pF	
C3074	23S41198U41	Electrolytic	220 uF/16V	
C3075	8S40656F13	Mylar	0.01 uF	
C3076	8S40656F13	Mylar	0.01 uF	
C3501	23S40657F28	Electrolytic	1 uF/50V	
C3502	23S40657F28	Electrolytic	1 uF/50V	
C3503	8S44505P41	Ceramic	220 pF	
C3504	8S44505P41	Ceramic	220 pF	
C3505	8S44505P45	Ceramic	470 pF	
C3506	8S44505P45	Ceramic	470 pF	
C3507	8S44505P50	Ceramic	1200 pF	
C3508	8S44505P50	Ceramic	1200 pF	
C3509	23T40475U02	Electrolytic	0.22 uF/50V	
C3510	23T40475U02	Electrolytic	0.22 uF/50V	
C3515	23S40657F17	Electrolytic	10 uF/25V	
C3516	23S40657F17	Electrolytic	10 uF/25V	
C3517	8S40656F13	Mylar	0.01 uF	
C3518	8S40656F13	Mylar	0.01 uF	
C3521	23S40657F17	Electrolytic	10 uF/25V	
C3522	23S40657F17	Electrolytic	10 uF/25V	
C3523	8T50579F15	T.F.	0.15 uF/50V	
C3524	8T50579F15	T.F.	0.15 uF/50V	
C3525	8S40656F21	Mylar	0.047 uF	
C3526	8S40656F21	Mula-	0.0475	
C3526	8540656F21 8S44505P49	Mylar Ceramic	0.047 uF 1000 pF	
C3527	8S44505P49	Ceramic	1000 pF 1000 pF	
C3529	8T50579F19	T.F.	0.33 uF	
C3530	8T50579F19	T.F.	0.33 uF	
C3531	23T40475U03	Electrolytic	0.33 uF/50V	
C3532	23T40475U03	Electrolytic	0.33 uF/50V	
C3533	8S44505P49	Ceramic	1000 pF	
C3534	8S44505P49	Ceramic	1000 pF	
C3535	8S40656F21	Mylar	0.047 uF	
C3536	8S40656F21	Mylar	0.047 uF	
C3537	23S41198U55	Electrolytic	470 uF/10V	
C3538	23S41198U55	Electrolytic	470 uF/10V	
C3539	8S40656F25	Mylar	0.1 uF	
C3540	8S40656F25	Mylar	0.1 uF	

Symbol No.	Part No.	Desc	cription
C3541	8S40656F25	Mylar	0.1 uF
C3542	8S40656F25	Mylar	0.1 uF
C3547	23S40657F28	Electrolytic	1 uF/50V
C3548	23S40657F28	Electrolytic	1 uF/50V
C3549	8S40656F13	Mylar	0.01 uF
C3550	8S40656F13	Mylar	0.01 uF
C3551	23S40657F17	Electrolytic	10 uF/25V
C3552	23S40657F17	Electrolytic	10 uF/25V
C3555	8S40656F21	Mylar	0.047 uF
C3556	8S40656F21	Mylar	0.047 uF
C3557	8S44505P49	Ceramic	1000 pF
C3558	8S44505P49	Ceramic	1000 pF
C3559	8S44505P49	Ceramic	1000 pF
C3560	8S44505P49	Ceramic	1000 pf
C3561	23S40657F17	1	1000 pF 10 uF/25V
C3501	23340057F17	Electrolytic	10 uF/ 25 V
C3562	23S40657F17	Electrolytic,	10 uF/25V
C3563	23S40657F17	Electrolytic,	10 uF/25V
C3564	23S40657F17	Electrolytic,	10 uF/25V
C3565	23541198U41	Electrolytic,	220 uF/16V
C3566	23S41198U41	Electrolytic,	220 uF/16V
Resis	tors		·
R201	6S44593P83	5.6K ohm	
R202	6S44593P83	5.6K ohm	
R203	6S44593P75	2.7K ohm	
R204	6\$44593P75	2.7K ohm	
R205	6S44593P89	10K ohm	
R 206	6S44593P89	10K ohm	
R207	6S44594P30	470K ohm	
R208	6S44594P30	470K ohm	
R209	6S44593P89	10K ohm	
R210	6S44593P89	10K ohm	
R211	6S44594P22	220K ohm	
R212	6S44594P22	220K ohm	
R213	6S44593P57	470 ohm	
R251	6S44594P26	330K ohm	
R252	6S44594P26	330K ohm	
R253	6S44594P32	560K ohm	İ
R254	6S44594P32	560K ohm	ļ
R255	6S44593P41	100 ohm	
R256	6S44593P41	100 ohm	
R257	6S44593P51	270 ohm	
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Symbol	Part No.	Description
No.	, ait 100.	Description
R258	6S44593P51	270 ohm
R259	6S40106T14	100K ohm
R260	6S40106T14	100K ohm
R261	6S40106T42	1.5M ohm
R262	6S40106T42	1.5M ohm
R263	6S44593P69	1.5K ohm
R264	6S44593P69	1.5K ohm
R265	6S44594P03	36K ohm
R266	6S44594P03	36K ohm
R267	6S44594P37	910K ohm
Dace	6S44594P37	01016 - 1
R268 R269	6S44594P37	910K ohm 15K ohm
R270	6S44593P93	15K ohm
R270	6S44593P81	4.7K ohm
R271	6S44593P81	4.7K ohm
112/2	0344083501	4.7 K OHIII
R273	6S44593P81	4.7K ohm
R274	6S44593P81	4.7K ohm
R275	6S40106T14	100K ohm
R276	6S40106T14	100K ohm
R277	6S44593P97	22K ohm
R278	6S44593P61	680 ohm
R279	6S44593P89	10K ohm
R280	6S44593P89	10K ohm
R281	6S44593P01	2.2 ohm
R282	6S44593P01	2.2 ohm
R283	6S44593P83	5.6K ohm
R284	6S44593P83	5.6K onm 5.6K ohm
R285	6S44593P89	10K ohm
R286	6S40150T93	15K ohm
R287	6S40106T06	47K ohm
11207	0040700700	47 K OIRII
R288	6S40106T06	47K ohm
R289	6S44594P38	1M ohm
R290	6S44594P38	1M ohm
R401	6S44593P65	1K ohm
R402	6S44593P65	1K ohm
R403	6S44593P81	4.7K ohm
R404	6S44593P81	4.7K ohm
R405	6S40106T06	47K ohm
R406	6S40106T06	47K ohm
R407	6S44594P22	220K ohm
R408	6S44594P22	220K ohm
R409	6S44594P22	220K 0//// 220K ohm
R410	6S44594P22	220K ohm
R411	6S44593P85	6.8K ohm
R412	6S44593P85	6.8K ohm
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Symbol No.	Part No.	Description
R413	6S44593P84	6.2K ohm
R414	6S44593P84	6.2K ohm
R415	6S44593P67	1.2K ohm
R416	6S44593P67	1.2K ohm
R417	6S44593P41	100 ohm
R418	6S44593P41	100 ohm
R419	6S44593P89	10K ohm
R420	6S44593P89	10K ohm
R421	6S44593P81	4.7K ohm
R422	6S44593P81	4.7K ohm
R423	6S44593P89	10K ohm
R424	6S44593P89	10K ohm
R427	6S44593P81	4.7K ohm
R428	6S44593P81	4.7K ohm
R429	6S44593P57	470 ohm
R430	6S44593P55	390 ohm
R431	6S44593P65	1K ohm
R432	6S44593P65	1K ohm
R433	6S44594P18	150K ohm
11400	0044304110	10010 011111
R434	6S44594P18	150K ohm
R451	6S44594P12	82K ohm
R452	6S44594P12	82K ohm
R453	6S44593P87	8.2K ohm
R454	6S44593P87	8.2K ohm
R455	6S40106T14	100K ohm
R456	6S40106T14	100K ohm
R457	6S44593P80	4.3K ohm
R458	6S44593P80	4.3K ohm
R459	6S44593P59	560 ohm
R460	6S44593P59	560 ohm
R461	6S44593P59	560 ohm
R462	6S44593P59	560 ohm
R463	6S44593P59	560 ohm
R464	6S44593P59	560 ohm
R465	6S44593P59	560 ohm
R466	6S44593P59	560 ohm
R467	6S44593P89	10K ohm
R468	6S44593P89	10K ohm
R469	6S44593P41	100 ohm
R470	6S44593P41	100 ohm
R471	6S44593P41	100 ohm
R472	6S44593P41	100 ohm
R503	6S44593P95	18K ohm
R504	6S44593P95	18K ohm
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Symbol	Part No.	Description
No.	rait NO.	
R505	6S44593P97	22K ohm
R506	6S44593P97	22K ohm
R507	6S44593P77	3.3K ohm
R508	6S44593P77	3.3K ohm
R509	6S44594P10	68K ohm
R510	6S44594P10	68K ohm
R511	6S44593P97	22K ohm
R512	6S44593P97	22K ohm
R513	6S44593P77	3.3K ohm
R514	6S44593P77	3.3K ohm
R515	6S40106T14	100K ohm
R516	6S40106T14	100K ohm
R517	6S44593P87	8.2K ohm
R518	6S44593P87	8.2K ohm
R519	6S44593P97	22K ohm
11010	3311333131	
R520	6S44593P97	22K ohm
R521	6S44593P77	3.3K ohm
R522	6S44593P77	3.3K ohm
R523	6S44594P17	130K ohm
R523	6S44594P17	130K ohm
N024	0344394717	130K GIIII
R525	6S44593P97	22K ohm
		22K ohm
R526	6S44593P97	
R527	6S44593P77	3.3K ohm
R528	6S44593P77	3.3K ohm
R529	6S44593P81	4.7K ohm
2500	0044500007	221/ - h
R530	6S44593P97	22K ohm
R531	6S44593P79	3.9K ohm
R532	6S44593P79	3.9K ohm
R535	6S44594P08	56K ohm
R536	6S44594P08	56K ohm
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R537	6S44593P75	2.7K ohm
R538	6S44593P75	2.7K ohm
R539	6S44593P47	180 ohm
R540	6S44593P47	180 ohm
R541	6S44594P11	75K ohm
R542	6S44594P11	75K ohm
R543	6S44594P20	180K ohm
R544	6S44594P20	180K ohm
R545	6S44593P73	2.2K ohm
R546	6S44593P73	2.2K ohm
11340	0044000770	2.2.
R547	6S44593P17	10 ohm
R547	6S44593P17	10 ohm
1		10K ohm
R549	6S44593P89	10K ohm
R550	6S44593P89	220K ohm
R551	6S44594P22	2201\ OHH
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Symbol No.	Part No.	Description		Symbol No.	Part No.	Description
R552	6S44594P22	220K ohm		R911	6S44593P89	10K ohm
R553	6S44594P02	33K ohm		R912	6S44593P89	10K ohm
R554	6S44593P57	470 ohm		R914	6S44593P89	10K ohm
R555	6S44593P83	5.6K ohm		R915	6S44593P81	4.7K ohm
R556	6S44593P81	4.7K ohm		R916	6S44593P97	22K ohm
R557	6S44593P77	3.3K ohm		R917	6S44593P97	22K ohm
R558	6S44593P79	3.9K ohm		R918	6S44593P89	10K ohm
R559	6S44593P57	470 ohm		R919	6S44593P89	10K ohm
R561	6S40106T06	47K ohm		R920	6S44593P89	10K ohm
R562	6S40106T06	47K ohm		R921	6S44593P89	10K ohm
R563	6S44593P37	68 ohm		R922	6\$40106T06	47K ohm
R564	6S44593P37	68 ohm		R3001	6S44593P41	100 ohm
R565	6S44593P37	68 ohm		R3002	6S44593P41	100 ohm
R566	6S44593P01	2.2 ohm		R3003	6S40106T14	100K ohm
R569	6S44594P02	33K ohm		R3004	6S40106T14	100K ohm
R571	6S40150T89	10K ohm		R3005	6S44593P65	1K ohm
R572	6S40150T89	10K ohm				
R801	6S44593P89	10K ohm		R3006	6S44593P65	1K ohm
R802	6S44593P89	10K ohm		R3007	6S44593P65	1K ohm
R803	6S44593P89	10K ohm	11	R3008	6S44593P65	1K ohm
R804	6S44594P24	270K ohm		R3009	6S40106T06	47K ohm
				R3010	6S40106T06	47K ohm
R805	6S44593P99	27K ohm	11		00,0100,00	
R806	6S44593P99	27K ohm		R3011	6S44593P81	4.7K ohm
R807	6S44593P85	6.8K ohm		R3012	6S44593P81	4.7K ohm
R808	6S44593P65	1K ohm		R3013	6S44593P75	2.7K ohm
R809	6S44594P22	220K ohm		R3014	6S44593P75	2.7K ohm
				R3015	6S40106T14	100K ohm
R810	6S44593P99	27K ohm	1 1			
R811	6S44593P65	1K ohm		R3016	6S40106T14	100K ohm
R812	6S44593P51	270 ohm		R3017	6S40106T06	47K ohm
R813	6S44594P02	33K ohm		R3018	6S40106T06	47K ohm
R814	6S44594P02	33K ohm		R3021	6S44593P92	13K ohm
DO45	0044504000	0014		R3022	6S44593P92	13K ohm
R815	6S44594P02	33K ohm		B2000	6044502500	4.014 -1
R816	6S44593P63	820 ohm		R3023	6S44593P80 6S44593P80	4.3K ohm
R817	6S44593P89	10K ohm		R3024	1	4.3K ohm
R819	6S44593P97	22K ohm		R3025	6S44593P43	120 ohm
R820	6S44593P97	22K ohm		R3026 R3027	6S44593P43 6S44594P30	120 ohm 470K ohm
R901	6S44593P97	22K ohm				
R902	6S44593P97	22K ohm		R3028	6S44594P30	470K ohm
R903	6S44593P89	10K ohm		R3029	6S44593P89	10K ohm
R904	6S44593P89	10K ohm		R3030	6S44593P89	10K ohm
R905	6S44593P89	10K ohm		R3031	6S40106T06	47K ohm
				R3032	6S40106T06	47K ohm
R906	6S44593P89	10K ohm		D 0000		07014
R907	6S44593P97	22K ohm		R3039	6S44594P24	270K ohm
R908	6S44593P97	22K ohm		R3040	6S44594P24	270K ohm
R909	6S44593P89	10K ohm	1 1	R3041	6S44593P93	15K ohm
R910	6S44593P89	10K ohm		R3042	6S44593P93	15K ohm
	L			R3043	6S40106T06	47K ohm

Symbol No.	Part No.	Description
R3044	6S40106T06	47K ohm
R3051	6S44594P22	220K ohm
R3052	6S44594P22	220K ohm
		47K ohm
R3053	6S40106T06	
R3054	6S40106T06	47K ohm
R3055	6S44594P38	1M ohm
R3056	6S44594P38	1M ohm
R3061	6S44593P81	4.7K ohm
R3062	6S44593P81	4.7K ohm
R3063	6S40106T14	100K ohm
R3064	6S40106T14	100K ohm
R3067	6S40106T06	47K ohm
R3068	6S40106T06	47K ohm
R3069	6S44594P04	39K ohm
R3070	6S44594P04	39K ohm
R3071	6S44593P75	2.7K ohm
R3072	6S44593P75	2.7K ohm
R3073	6S44593P79	3.9K ohm
R3074	6S44593P79	3.9K ohm
R3077	6S40106T06	47K ohm
R3078	6S40106T06	47K ohm
R3081	6S44593P92	13K ohm
R3082	6S44593P92	13K ohm
R3087	6S44594P16	120K ohm
R3088	6S44594P16	120K ohm
R3089	6S44594P24	270K ohm
R3090	6S44594P24	270K ohm
R3093	6S40106T14	100K ohm
R3094	6S40106T14	100K ohm
R3095	6S44593P73	2.2K ohm
Bance	CC44E02D02	5 1 1/ aban
R3096	6S44593P82 6S44593P66	5.1K ohm
R3097 R3098	6S44593P66	1.1K ohm 1.1K ohm
		1.1K ohm
R3099 R3102	6S44593P65 6S44593P65	1K onm
R3501	6S44593P41	100 ohm
R3502	6S44593P41	100 ohm
R3503	6S40106T14	100K ohm
R3504	6S40106T14	100K ohm
R3507	6S40106T06	47K ohm
R3508	6S40106T06	47K ohm
R3511	6S44593P92	13K ohm
R3512	6S44593P92	13K ohm
R3517	6S44594P16	120K ohm
R3518	6S44594P16	120K ohm

Symbol No.	Part No.	Desc	ription
R3519	6S40106T14	100K ohm	
R3520	6S40106T14	100K ohm	
R3521	6S44593P81	4.7K ohm	
R3522	6S44593P81	4.7K ohm	
R3527	6S44594P38	1M ohm	
R3528	6S44594P38	1M ohm	
R3529	6S40106T06	47K ohm	
R3530	6S40106T06	47K ohm	
R3533	6S44594P24	270K ohm	
R3534	6S44594P24	270K ohm	
R3535	6044502070	1.6K ohm	
R3536	6S44593P70 6S44593P70	1.6K ohm	
R3537	6S44593P93	15K ohm	
R3538	6S44593P93	15K ohm	
R3539	6S44593P89	10K ohm	į
	0011000100		
R3540	6S44593P89	10K ohm	
R3545	6S44593P75	2.7K ohm	
R3546	6S44593P75	2.7K ohm	
R3547	6S44594P24	270K ohm	
R3548	6S44594P24	270K ohm	
R3549	6S44593P93	15K ohm	
R3550	6S44593P93	15K ohm	ĺ
R3551	6S40106T06	47K ohm	
R3552	6S40106T06	47K ohm	
R3559	6S44594P22	220K ohm	
R3560	6S44594P22	220K ohm	
R3561	6S44594F22	13K ohm	
R3562	6S44593P92	13K ohm	
R3563	6S44593P80	4.3K ohm	
R3564	6S44593P80	4.3K ohm	ĺ
110004	0077000100	7.010 01111	
R3565	6S44593P43	120 ohm	
R3566	6S44593P43	120 ohm	
R3567	6S44594P30	470K ohm	
R3568	6S44594P30	470K ohm	
R3569	6S44593P89	10K ohm	
R3570	6S44593P89	10K ohm	
R3571	6S40106T06	47K ohm	
R3572	6S40106T06	47K ohm	
R3577	6S40106T06	47K ohm	
R3578	6S40106T06	47K ohm	
R3579	6S44593P65	1K ohm	
R3580	6S44593P65	1K ohm	
R3581	6S44593P81	4.7K ohm	
R3582	6S44593P81	4.7K ohm	
VR251	18C42061J15	Variable	50K ohm
			20

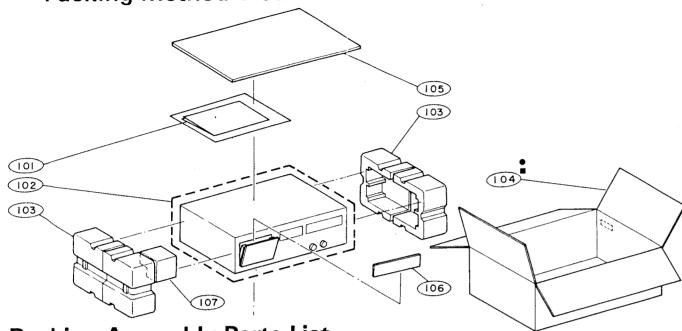
Symbol No.	Part No.	Des	cription
VR252	18C42061J15	Variable	50K ohm
VR301	18C42061J13	Variable Variable	2K ohm
VR301	18C42061J12	Variable Variable	2K ohm
VR351	18C42061J12	Variable	2K ohm
VR352	18C42061J12	Variable	2K ohm
11.002	10012001012	Variable	210 01111
VR401	18C42061J21	Variable	500 ohm
VR402	18C42061J21	Variable	500 ohm
VR403	18T47459F01	Variable	5KA x 2
VR503	18C42061J24	Variable	20K ohm
VR504	18C42061J24	Variable	20K ohm
VR505	18C42061J14	Variable	10K ohm
VR506	18C42061J14	Variable	10K ohm
VR507	18C42061J14	Variable	20K ohm
VR508	18C42061J24	Variable Variable	20K ohm
VR508	18C42061J14	Variable Variable	10K ohm
V 11309	10072001314	A GI 19DIG	FOR OITH
VR510	18C42061J14	Variable	10K ohm
VR511	18C42061J14	Variable	10K ohm
VR512	18C42061J14	Variable	10K ohm
V.R513	18C42061J15	Variable	50K ohm
VR514	18C42061J15	Variable	50K ohm
\/D545	40040004144		4014
VR515	18C42061J14	Variable	10K ohm
VR516	18C42061J14	Variable	10K ohm
VR517	18C42061J16	Variable	100K ohm
VR518	18C42061J16	Variable	100K ohm
VR519	18T43406P01	Variable	220K ohm ½W
VR520	18T43406P01	Variable	220K ohm 1/2W
VR521	18C42061J12	Variable	2K ohm
VR522	18C42061J12	Variable	2K ohm
VR801	18C42061J05	Variable	50K ohm
VR802	18C42061J05	Variable	50K ohm
	Power & L	Control P.C.	Board
IC's			
IC601	51T47110F01	BA843	
IC602	51T47738F01	TD62507P	
IC603	51T47738F01	TD62507P	
-			
Trans	istors		
Q101	48T41365F03	2SD893-R	
or	48T41365F02	2SD893-Q	
Q1 O2	48T40469U01	2SC1983	
Q103	48T40469U01	2SC1983	
	·		

Symbol No.	Part No.	Description
Q601	48T43525F02	2SC1815-Y
or	48T44578J01	2SC945L-P
Q602	48T43525F02	2SC1815-Y
or	48T44578J01	2SC945L-P
O603	48T41365F03	2SD893-R
or	48T41365F02	2SD893-Q
Q604	48T41365F03	2SD893-R
or	48T41365F02	2SD893-Q
Ω605	48T41365F03	2SD893-R
or	48T41365F02	2SD893-Q
Q606	48T43525F02	2SC1815-Y
or	48T44578J01	2SC945L-P
	·	
Diodes		
D101	48T40477U01	1N4003
or	48C40235G02	10E2
D601	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D602	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D603	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D604	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D605	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D606	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D607	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D608	48T40477U01	1N4003
or	48C40235G02	10E2
D609	48T40477U01	1N4003
or	48C40235G02	10E2
D610	48T40477U01	1N4003
or	48C40235G02	10E2
D611	48T40477U01	1N4003
or	48C40235G02	10E2
D612	48T51582F01	MA-150
or	48T51881F01	DS442-BT
BD101	48T50629F01	Bridge WL-02
ZD101	48T40150U33	Zener HZ 6B-3
ZD102	48T40150U80	Zener HZ 220-2
ZD103	48T40150U65	Zener HZ 12B-2

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Symbol No.	Part No.	Description	Symbo No.	ol	Part No.	Description
R672	6S44593P89	10K ohm	PL101		65T50260F01	Lamp, Pilot
R673	6S44593P89	10K ohm	PL104		65T51990F01	Lamp, Pilot 14V-80mA
R674	6S44593P97	22K ohm	PL105		65C42544U04	Lamp, Pilot 14V-50mA
R675	6S44593P89	10K ohm	Q1		AZ11H-00	Transistor, Sensor (TPS605)
R676	6S44594P22	220K ohm	R501		6S41042U87	Resistor, C.F. 8.2K ohm 1/8W
,					33 / / 3 / 12 0 /	,
R677	6S44593P89	10K ohm	R502		6S41042U87	Resistor, C.F. 8.2K ohm 1/8W
R678	6S44593P89	10K ohm	R567		6S41042U87	Resistor, C.F. 8.2K ohm 1/8W
R679	6S44593P89	10K ohm	R568		6S41042U87	Resistor, C.F. 8.2K ohm 1/8W
R680	6S44593P65	1K ohm	SW1		FE173-11	Switch, Slide
R681	6S44593P85	6.8K ohm	SW2		FE173-11	Switch, Slide
R682	6S44593P57	470 ohm	SW101	•	40T45561F01	Switch, Power (SDL1P)
R683	6S44593P57	470 ohm			40T47454F01	Switch, Power (SDL1P)
R817	6S44593P57	470 ohm	SW102	•	40T40705T01	Switch, Voltage Select
R818	6S44593P57	470 ohm	SW609		40T50262F01	Switch, Slide (50/60 Hz)
			SW611		40T44505F01	Switch, KHG (Play)
			SW612		40T44505F01	Switch, KHG (Stop)
1			SW613		40T44505F01	Switch, KHG (FF)
			SW614		40T44505F01	Switch, KHG (Rew)
			SW615		40T44505F01	Switch, KHG (Pause)
			SW616		40T44505F01	Switch, KHG (Rec)
			SW617		40T40505F01	Switch, KHG (Rec Mute)
1			SL1	ļ	F082-044	Assembly, Solenoid
			SL2	İ	PKA16106	Assembly, Solenoid
			SL3		PKA16106	Assembly, Solenoid
1			T101	•	25T44724F01	Transformer, Power
				=	25T50265F02	Transformer, Power
			TH501		EZ15E-00	Thermistor
100 Table 100	Maria Company of War Company	19-20 Company of the	VR201		18T50226F01	Volume, Slide S60BIG 301
	N/ issalla	neous Parts				10KA x 2 (Rec Level)
		lileous Fai ts	VR501		18T50506F01	Volume, Rotary 10KB
D1	AU11C-00	LED, Sensor (TLN104)				(Rec Cal)
E401	72T47742F01	Meter, Optical	VR502		18T50506F01	Volume, Rotary 10KB
E451	9T45549F12	Jack, Mic 6.3				(Rec Cal)
		(Metal) (Headphone)	VR523		18T43904U01	Volume, Rotary Bias 1K
E601	65T47743F01	Counter, FL				
LED301	48T51262F01	LED AY57245 (YEL)				
LED601	48T45518F01	LED 1331G (Grn)				
LED602	48T45519F01	LED 1741Y (Yel) .				
LED603	48T45517F01	LED SEL 1112R				
E101		Plug, AC Cord				
-		Plug, AC Cord				
1						
1	28T44061F02	Plug, AC Cord				
1	28T45338F01	Plug, AC Cord		[
HD501	FU11L-12	Head, R/P Combination				
HD502	FU163-11	Head, Erase	1			
M1	F064-093	Assembly, Motor				
		· ·				
						

^{●:} For multi-voltage model only [O: General foreign model, △: Australian model, ☎ English model], ■: For single voltage model only [North American model] Others: Common





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Symbo No.	ol	Part No.	Description
101		1V51200F79	Assembly, Pamphlet
101-1		28T44352F01	Plug, Output Cord
101-2		56B40230G14	Sack, Polyethylene
101-3		68P50150F06	Manual, Owner's
102		56B40442T02	Packing, Front Frame
103 104 105 106 107	•	56C45556F01 56C44544F41 56C50570F09 56D41118J12 15A41885U01 56A51982F01	Tray, Packing Carton, Packing Carton, Packing Pad, Packing Cover, Door Tray, Packing (Door)
		Lab	els 📜 🚉
	•	54B43134U25	Label, Fuse TIA
	•	54B43134U37	(Power & Control P.C. Board) Label, Fuse (Power & Control P.C. Board)

Symbol No.	Part No.	Description
0	54B42541F06	Label, Safety (Rear, Cover)
•	54B42124G02	Label, Date Code
		(Bottom Chassis)
•	54B42124G01	Label, Serial Number
		(Rear Cover)
☆	54A40521U01	Label, Made in Japan
		(Front Panel)
☆	54A47796F01	Label, U.K. (Carton)
Λ	54A50155F01	Label, AS (Carton)
	54A44553G01	Label, CSA (Rear Cover)
	54A41728P01	Label, Caution A (Rear Cover)
=	54A41728P03	Label, Caution B (Rear Cover)
•	54A51850F01	Label, Sticker (Door)
☆	54A47794F01	Label, Fuse
습	54A47795F01	Label, AC

Cabinet Assembly Parts List

Index	Symbol No.	Part No.	Description
1-A	1	3S40036U16	Screw, Tap Tite (M4 x 6)
1-A	2	43A41728U09	Bush, Lamp
1-A	3	1V53600F21	Assembly Cover, Dust
2-A	4	3S40036U06	Screw, Tap Tite (M3 x 6)
2-A	5	3S44205G05	Screw, Tap Tite (M3 x 5)

	Index	Symbol 'No.	Part No.	Description
	3-A	6	*	Chassis, Front
Ì	3-A	7	3C40014G09	Screw, Machine (M3 x 5)
ı	3-A	8	64B47884F01	Panel, Slide Volume
	4-A	9	3S44205G16	Screw, Tap Tite (M3 x 6)
-	4-A	10	45A47879F01	Lever, Arm

^{●:} For multi-voltage model only [O: General foreign model, △: Australian model, ♠: English model], ■: For single voltage model only [North American model] Others: Common

NOTE: The parts without part numbers are not supplied.

Index	Symbol No.	Part No.	Description	2000	X and	Symbol	So.	Part No.	Description
4-A	11	75B44632G15	Pad, Tefion	1-	E	51	•	1V51600F41	Assembly, Power
4-A	12	36A47876F01	Knob, Slide						& Control P.C. Board
4-A	13	1V46400F80	Assembly, Door				•	1V51800F29	Assembly, Power &
4-B	14	7A50225F01	Bracket, Panel						Control P.C. Board
4-B	15	43A47880F01	Sleeve, Volume		- 1	52	•	9T45548F01	Holder, Fuse
				1 1	Į.	53		3C42723U01	Screw, Cup
5-B	16	36A47129F01	Knob, Bias	2-	·Ε	54		7B47370F01	Support, P.C. Board
			(Bias Fine, Phones Level)						
5-B	17	36A47877F01	Knob, Rotary Switch	2-	·E	55]	43B41625J02	Support, Cord
			(Tape Select, Dolby NR)				=	43B41625J01	Support, Cord
2-B	18	75B44632G04	Pad, Cushion	1 1	- 1	56		*	Bracket, Transformer
2-B	19	43A51937F01	Spacer, Eject		- 1	57		3S44205G38	Screw, Tap Tite (M3 x 6)
2-B	20	81T50753F01	Deck, Cassette (FL87E320)	5.	E	58		61B47368F01	Crystal, Meter
0.0	21	13B45448F03	Door, Escutcheon	5-	E	59		7B47367F01	Frame, Meter
2-B	21 22	1V51600F40	Assembly, Switch		- 1	60		14A40472G02	Insulator, Transistor
3-B	22	1 73 10001 40	P.C. Board	ł I	- 1	61		*	Bracket, Heat Sink
3-B	23	84D50236F04	Panel, Master (Phones)	2-	- 1	62		43A44685F01	Spacer, Switch
4-B	24	1V51200F72	Assembly, Front Panel	1 1	- 1	63		3A43146G01	Screw, Machine (M2 x 6)
4-B	25	29A41814G01	Lug						
טיד	20	23/14/01/4001		2-	F	64		43A43182P01	Spacer, Transistor
4-B	26	26B51023F01	Shield, Static Electricity	2-	F	65		26A51309F01	Panel, Shield
4-B	27	36A45454F01	Knob, Function 15 (Rew,	4-	F	66	•	3S40036U13	Screw, Tap Tite (M3 x 12)
			FF, Rec, Rec Mute)				=	3S44205G08	Screw, Tapping (M3 x 12)
4-B	28	36A45455F01	Knob, Function 20	4-	F	67		84D50236F05	Panel, Master (Lamp)
4-B	29	36A45456F01	Knob, Function 25.5						
ĺ			(Stop, Pause)	4-	- 1	68		3S40018G01	Screw, Tapping (M3 x 6)
2-C	30	45B50264F01	Lever, Power Switch			69		3S44205G40	Screw, Tap Tite (M3 x 4)
İ						70		7A51010F01	Bracket, P.C. Board
3-C	31	84D50236F03	Panel, Master (Volume)		- 1	71		7T41193U01	Sink, Heat
4-C	32	5B41635J02	Rivet, Push	2-1	н	72		3S43997P88	Screw, Machine (M2 x 4)
4-C	33	7A51006F01	Bracket, P.C. Board		.,			0040040044	
4-C	34	36C45466F01	Knob, Function Key	1	- 1	73 74		3S40012G41	Screw, Tapping (M3 x 8)
5-C	35	3S40012G28	Screw, Tapping (M3 x 8)	2-1		′4		15C47881F01	Cover, Rear Cover, Rear
		0.4050000500	B (1.55)	3.1	нΙ	75	•	15C47881F02 1V51600F39	Assembly, Master P.C. Board
5-C	36	84D50236F06 **	Panel, Master (LED)		- 1	76		*	Chassis, Side
3-D	37		Support, Tape Deck		- 1	77		*	Cover, Bottom
3-D	38	** 84B45552F01	Chassis, Bottom Panel, Keyboard Switch			.		~	
4-D 5-D	39 40	3S43997P63	Screw, Machine (M1.7 x 4)	4-7	A	78	ĺ	14A40440T10	Fiber, Insulator
5-0	40	33433371 03	Screw, Machine (M1.7 x 4)	4-(c	79		7A51877F01	Support, Lamp
5-D	41	4S40070G48	Washer, Flat Metal	3-0	c	80	1	41A51880F01	Spring, Link
5-D	42	36A51005F01	Knob, Control (Rec. Cal)	3-0	c	81		14A40440T09	Fiber, Insulator
5-D	43	84B50755F01	Panel, Rec Control	5-0	c	82		43A44464P08	Bushing, Pilot Lamp
1-D	44	15D45442F02	Cover, Top	5-1	Εļ	83		14A40440T11	Fiber, Insulator
2-D	45	*	Support, Transformer						
2-D	46	3S40036U07	Screw, Tap Tite (M4 x 12)						
2-D	47	7A40871F01	Support, Transformer						
2-D	48	3C40014G04	Screw, Machine (M3 x 6)			ļ			
3-D	49	75A42565P13	Cushion, Rubber	-	Ì				į
3-D	50	75A44348F01	Pad, Felt						
			į						

^{•:} For multi-voltage model only •: For single voltage model only NOTE: ※ The parts whose part number are not entered are not supplied.

Symbol No.	Part No.	Desc	cription	Ľ
Jacks				
801	9T50261F01	Jack, Control		
		,		
Fuses				
F101 •	65T42077U16	(1A)		
102		(1A)	ļ	
F103 •		(400mA)		
Capa	citors			
C101	23S40657F10	Electrolytic	10 uF/16V	
C102	23S40657F10	Electrolytic	10 uF/16V	
C103	23S41198U67	Electrolytic	1000 uF/50V	
C104	23S41198U49	Electrolytic	330 uF/25V	
C105	23S41198U57	Electrolytic	470 uF/25V	
0400	000444001175	FI	0000 5/05 \	
C106	23S41198U72	Electrolytic	2200 uF/25V	
C107	23S41198U56	Electrolytic	470 uF/16V	
C108	23S40657F14 23S40657F28	Electrolytic Electorlytic	100 u F/16V 1 u F/50V	
C109 C601	8S44505P61	Ceramic	10000 pF	
Cour	8544505761	Cerainic	10000 p.	Ì
C602	8S44505P61	Ceramic	10000 pF	
C603	8S44505P61	Ceramic	10000 pF	
C603	8S44505P61	Ceramic	10000 pF	
C605	8S44505P61	Ceramic	10000 pF	
C606	8S44505P61	Ceramic	10000 pF	
			,	
C607	23S40657F06	Electrolytic	33 uF/10V	
C608	23S40657F07	Electrolytic	47 uF/10V	
C609	23S40657F10	Electrolytic	10 uF/16V	
C610	23S40657F07	Electrolytic	47 uF/10V	
C611	23S40657F07	Electrolytic	47 uF/10V	
C612 C613	23S40657F10 23S40657F09	Electrolytic Electrolytic	10 uF/16V 220 uF/10V	
CO 13			223 3.710 1	
Resi	stors			
R101	6S44593P57	470 ohn	n	
R102	6S44593P75	2.7K ohn	1	
R103	6S44593P75	2.7K ohn		
R 104	6S44593P61	680 ohn	n	
R105	6S44593P61	680 ohr	n	

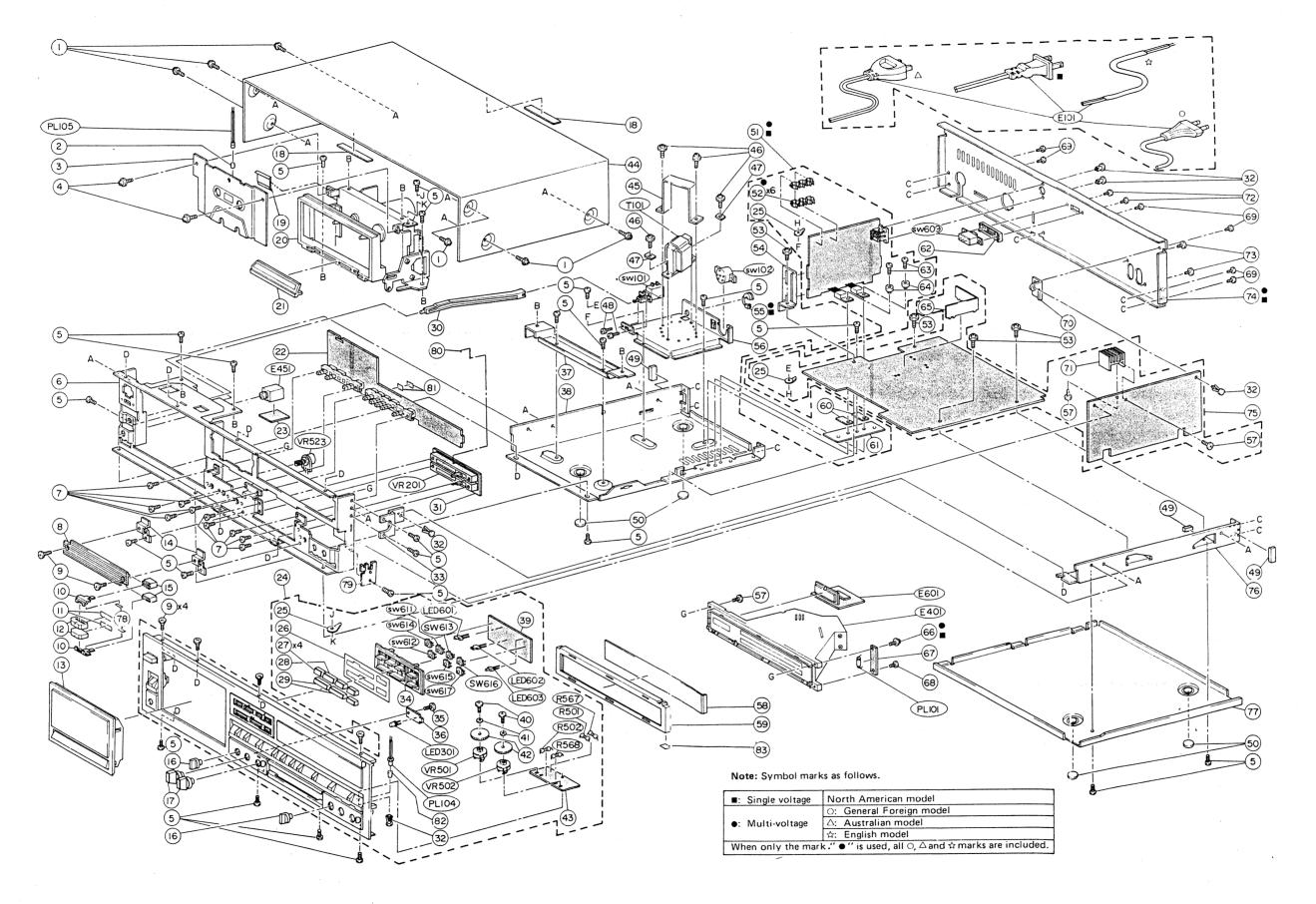
Symbol No.	Part No.	Description
R601	6S44594P06	47K ohm
R602	6S44594P06	47K ohm
R603	6S44593P45	150 ohm
R604	6S44593P47	180 ohm
R605	6S44593P77	3.3K ohm
11000	0011000177	3.5 10 51111
R606	6S44593P89	10K ohm
R607	6S44593P75	2.7K ohm
R608	6S44593P97	22K ohm
	6S44593P97	22K ohm
R609		
R610	6S44593P89	10K ohm
R611	6S44593P89	10K ohm
l	6S44593P97	22K ohm
R612	6S44594P06	
R613		47K ohm
R614	6S44593P89	10K ohm
R615	6S44593P59	560 ohm
R616	6S44593P73	2.2K ohm
1	6S44593P59	560 ohm
R617	1	
R618	6S44593P73	2.2K ohm
R619	6S44593P59	560 ohm
R620	6S44593P73	2.2K ohm
R621	6S44593P93	15K ohm
ı	6S44593P89	10K ohm
R622		47K ohm
R623	6S44594P06	
R624	6S44593P89	10K ohm
R625	6S44594P14	100K ohm
R626	6S44593P85	6.8K ohm
R627	6S44593P91	12K ohm
R628	6S44593P89	10K ohm
R630	6S44593P79	3.9K ohm
t	6S44594P02	33K ohm
R631	6544594F02	3310 01111
R632	6S44593P69	1.5K ohm
R633	6S44593P63	820 ohm
R634	6S44593P87	8.2K ohm
R635	6S44593P97	22K ohm
R636	6S44594P06	47K ohm
11000		
R637	6S44593P97	22K ohm
R638	6S44594P06	47K ohm

Others: Common

Symbol No.	Part No.	Description					
	Switch P.C. Board						
IC & 7	ransistor						
IC604	51T47738F01	TD62507P					
Q651 or	48T40627U01 48T40627U04	2SD636-Q 2SD636-R					
Diode	S						
D651 or D652 or D654 or D655 or D657 or D658 or D660 or D661 or D662 or	48T51582F01 48T51881F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51582F01 48T51881F01 48T51582F01 48T51881F01	MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT MA-150 DS442-BT					
LED's							
LED604 LED605 LED608 LED801 LED802 LED803	48T45564F01 48T45564F01 48T45564F01 48T50263F01 48T45564F01 48T47746F01	SLP-260C (Auto Play) SLP-260C (Auto Rew.) SLP-260C (Exe. Ind.) SLP-160C (Rec. Cal Ind.) SLP-260C (Tape Ind.) SLP-460C (Source Ind.)					

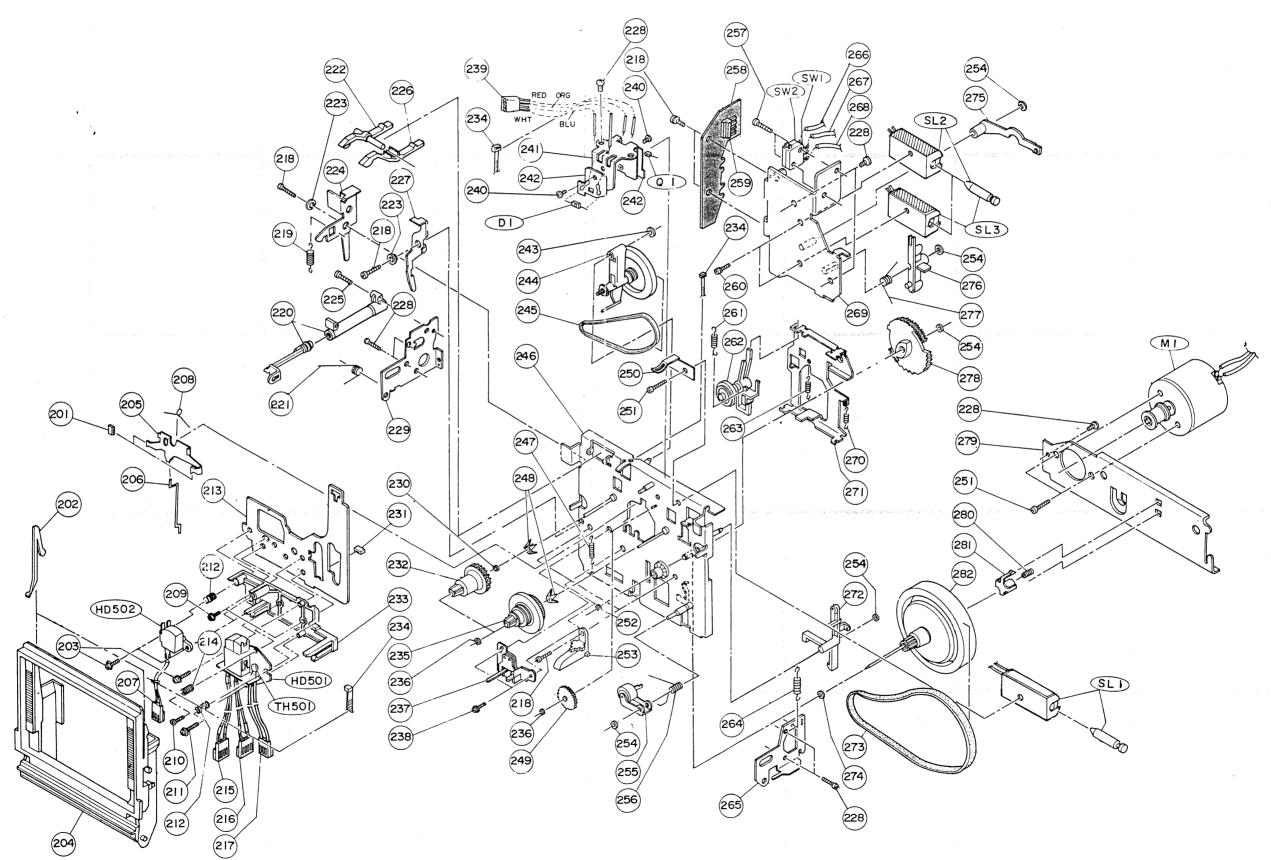
40T50228F01 40T50228F01 40T50229F01 40T50227F01 40T50227F01 40T50228F01 40T50228F01 23T43247F15 23T43247F05 23T43247F10	Push SUT32A Push SUT51B Counter, Call, Push SUT113 Push SUT113 Push SUT32A Electrolytic Electrolytic	(Auto Rew.) (Exe., Clear, Write) (Rec. Cal) (Monitor)
40T50228F01 40T50229F01 40T50227F01 40T50227F01 40T50228F01 0rs 23T43247F15 23T43247F05 23T43247F07	Push SUT32A Push SUT51B Counter, Call, Push SUT113 Push SUT32A Electrolytic	(Auto Rew.) (Exe., Clear, Write) (Rec. Cal) (Monitor)
40T50227F01 40T50227F01 40T50228F01 ors 23T43247F15 23T43247F05 23T43247F07	Counter, Call, Push SUT113 Push SUT32A Electrolytic	Write) (Rec. Cal) (Monitor)
40T50227F01 40T50228F01 ors 23T43247F15 23T43247F05 23T43247F07	Push SUT113 Push SUT32A Electrolytic	(Monitor)
23T43247F15 23T43247F05 23T43247F07	•	
23T43247F05 23T43247F07	•	
23T43247F07	Electrolytic	100 uF/6.3V
	•	1 uF/50V
23143247E10	Electrolytic	3.3 u F/25V 22 u F/16V
		-
s		
6S44594P06	47K ohm	
6S44594P06	47K ohm	
6S44593P57	470 ohm	
6S44593P61 6S44593P61	680 ohm 680 ohm	
6S44593P61	680 ohm	
6S44593P85	6.8K ohm	
6S44593P97 6S44593P89	10K ohm	
6S44593P97	22K ohm	
6S44593P89	10K ohm	
6S44593P89	10K ohm	
6S44593P85	6.8K ohm	
0544593797	ZZK onm	
6S44593P97	22K ohm	
6S44594P14	100K ohm	
6S44593P89	10K ohm	
0077000187	ZZIN UIIIII	
	23T43247F10 6S44594P06 6S44593P57 6S44593P61 6S44593P61 6S44593P61 6S44593P97 6S44593P97 6S44593P97 6S44593P89 6S44593P89 6S44593P89 6S44593P87 6S44593P97 6S44593P97 6S44593P97	23T43247F10 Electrolytic 6S44594P06 47K ohm 6S44593P57 680 ohm 6S44593P61 680 ohm 6S44593P61 680 ohm 6S44593P85 6844593P97 22K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 22K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P89 10K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm 6S44593P97 22K ohm

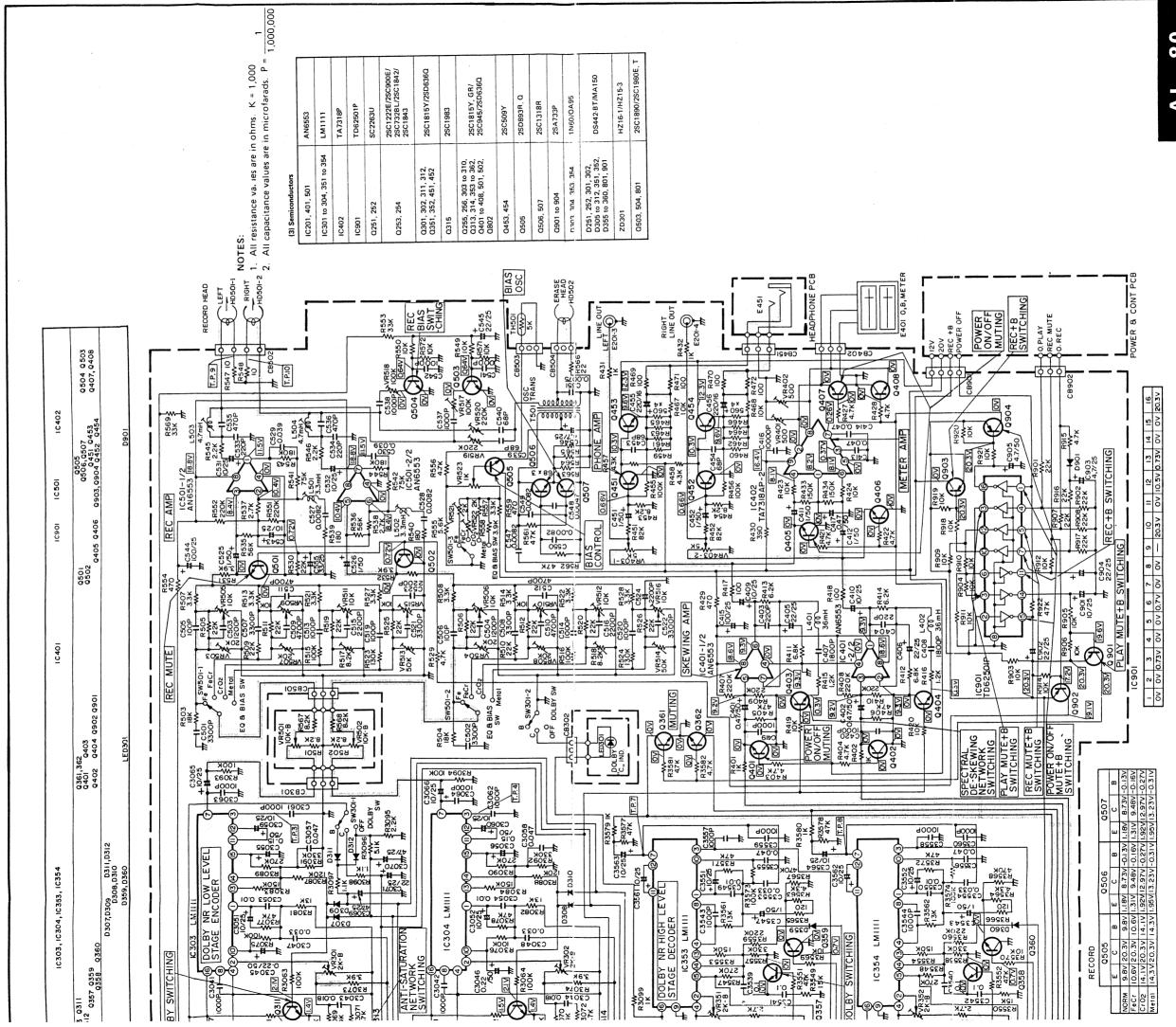
Exploded View (Cabinet)

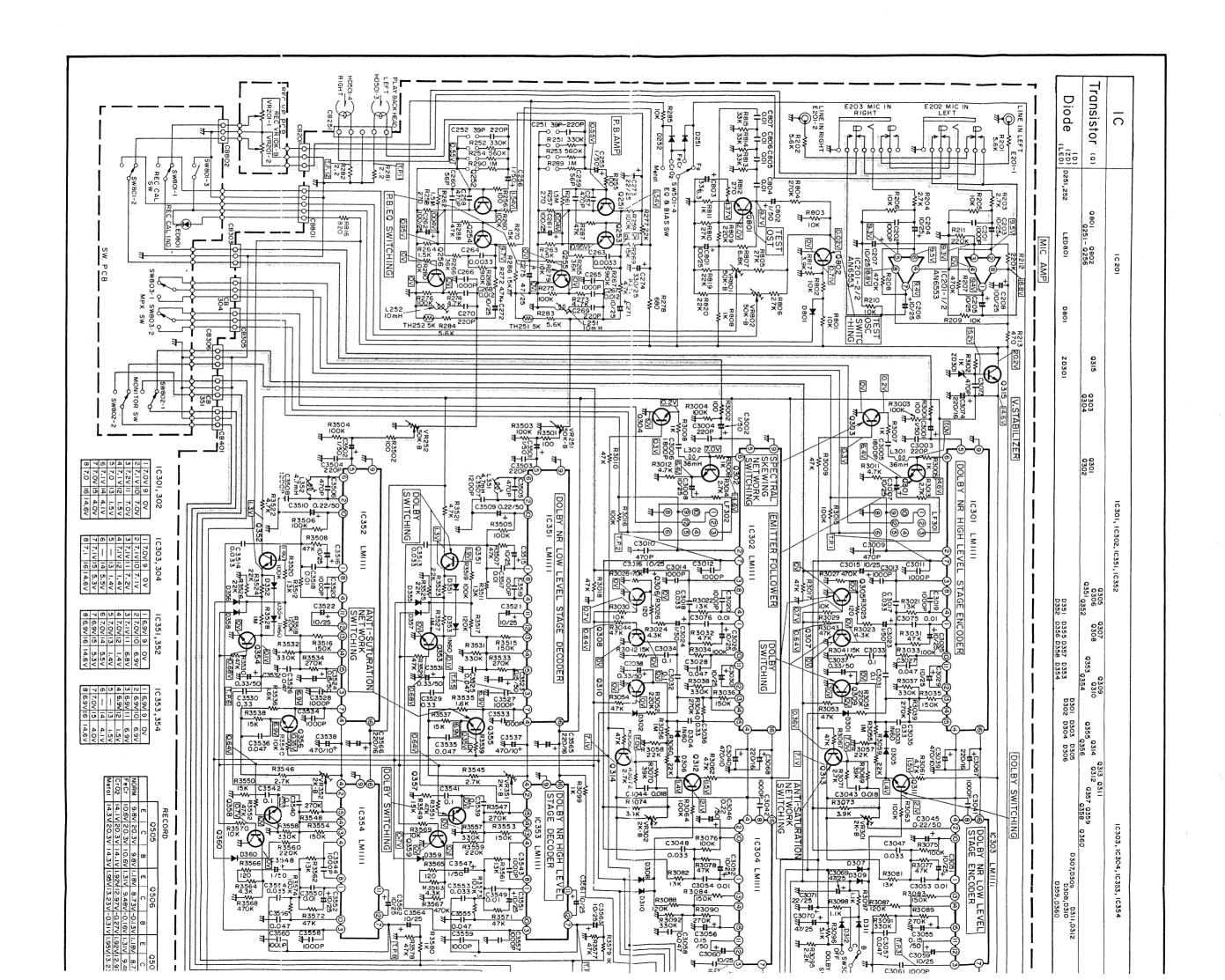


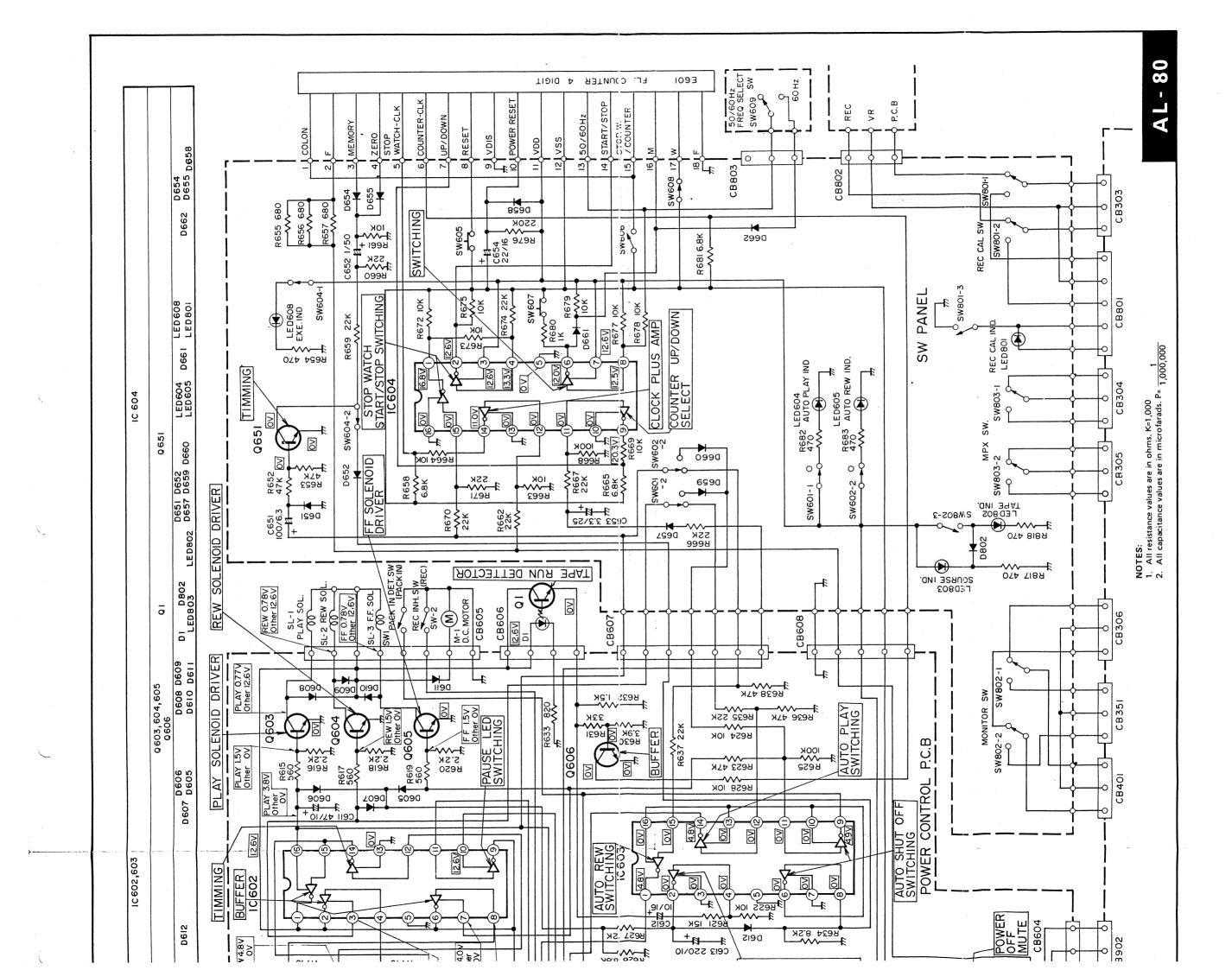
AL-80 AL-80

Exploded View (Cassette Deck)









The voltage value is the reference value measured when no is put in or when the mode is STOP if not specified. D601 ~607, 612, 651, 652, D654, 655, 657 ~662, 802 tes:
All resistance values are in ohm, K = 1,000, M = 1,000,000.
All resistance values are in microfarads. P = 1/1,000,000.
All resistance values are in microfarads. P = 1/1,000,000.

Example value is the reference value measured when no signal evoltage value is the reference value measured when no signal evoltage value is the reference value measured when no signal evoltage value is the reference value measured when no signal evoltage value is the reference value measured when no signal evolutions are reference values are reference values. For single-voltage model Tiol 2SD893R, Q 2SC1983 2SC1815/2SC945L 2SD636Q, R BA843 TD62507P MA150/DS442-BT For multi-voltage model Diode (LED) Transistor 0.8 PLAY IND.
PAUSE IND ED602
REC IND ED603 SW6I2 STOP SW617 SW6I4 REW PLIO2

METER
LAMP
PLIO3 SW6I5 PAUSE SW6I3 FF SW616 E801 REMOTE CASSETE CB602 R603 I50 Свео , 🔷 Фрсіоз LED601,602,603 R604 180 R605 3.3K — <u>ceoe</u> → I <u>C605</u> 1 c603 1 C602 V,STABILIZER BD 101 POWER ON/OFF MUTE CIO3 RIO2 NIO00/50 2.7K RIO3 330/25 2.7K ZDIO2 HZ-20-2 CB 603 CIO6 880 2200/25 680 2200/25 78105 1470/16 680 C109 1/50+ DECK CONTROLLER MASTER D60: R607 3.3K Q602 R602 47F CIOI 10/16 3 1 ZDIOI 6 HZ-6 2 0102,103 ZDI01 D602 ZDI02 ZDI03 D603 D604 ZDIO3 HZ-I2 C CIO8 IOO/I6 BOARD (A.R.) 37 R608 22K R609 22K 3 13 † C102 10/16 Q60I 0101 RIOI 470 REW 4.5V Other OV FF 4.6V Other OV REW 3.8V Other OV R6IO IOK FF. REW 4.8V Other OV C6IO₊ 47/IO C608, 47/10 R6I3 \$**-**47K TAPE END DETECT POWER OFF MUTE CB604 C6I3 220/IO R634 8.2K R627 12K D612 D612 BUFFER IC 602 * SWITCHING
POWER CONTROL 4.8V D607 D606 C6II 47/IO + D606 PLAY 3.8V Other OV R61 PLAY Other D607 D605 R628 IOK VSV ÓV סר! R623 47K R618

, 602, 606

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10 601

10602,603

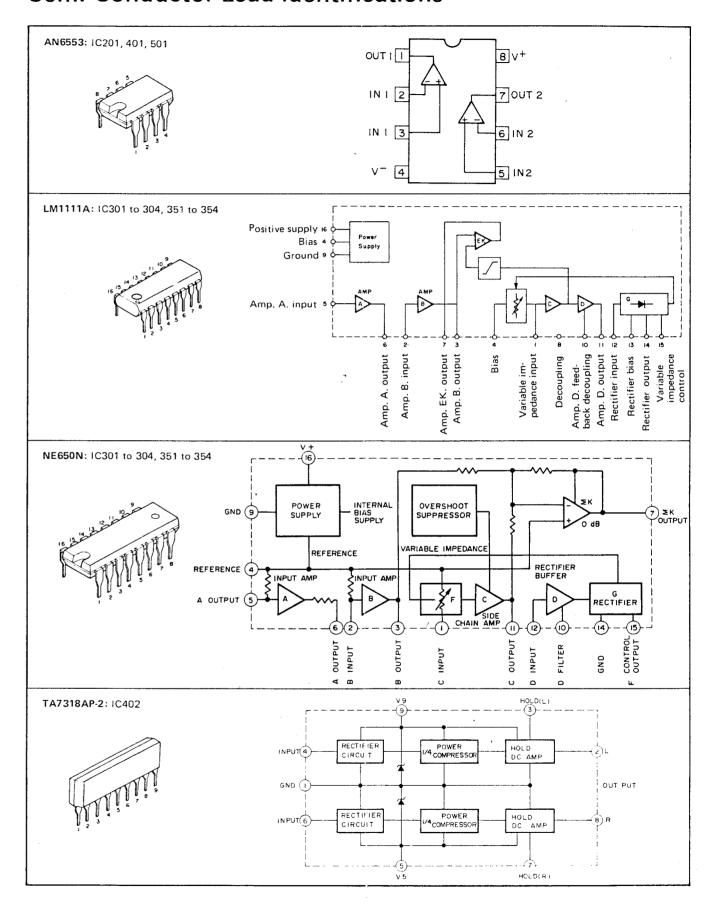
PLUG CORD

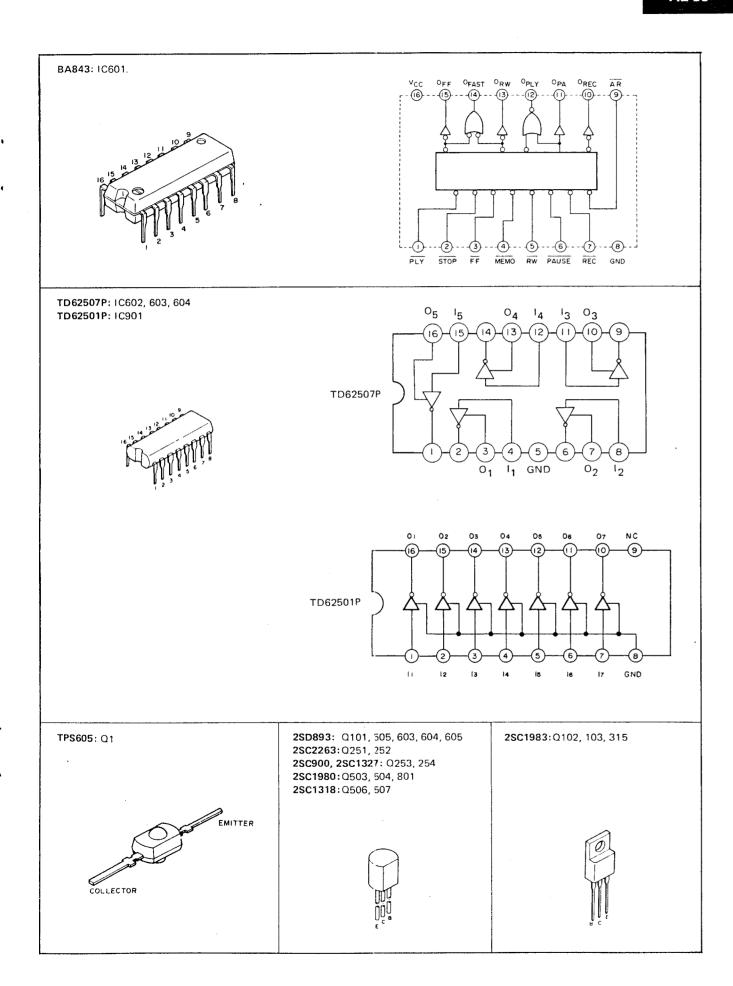
Cassette Deck Assembly Parts List

Index	Symbol No.	Part No.	Description	Index	Symbol No.	Part No.	Description
3-A	201	FF11C-11	Rubber, Brake	1-D	241		Bracket, Sensor
3-A	202	FK553-12	Spring, Hold	2-D	242	FP11E-11	Panel, Sensor
4-A	203	UG11K-11	Screw, Bind (M2 x 115)	2-D	243	FJ123-19	Washer, Lock (ϕ 3.5)
5-A	204	FR369-11	Frame, Door	2-D	244	FP470-11	Assembly, Clutch
3-B	205	FC15G 1	Lever, Brake	2-D	245	FP463-11	Belt, Sub
3-B	206	FK11Y-11	Rod, Brake	3-D	246	*	Assembly, Chassis
4-B	207	WH17T-00	Cable, Connector (E)	3-D	247	FK578-12	Spring, Head Base Hold
3-B	208	FK12A-11	Spring, Brake	3-D	248	FK579-11	Spring, Back Tension
4-B	209	FG137-13	Screw, F-Lock (M2 x 5)	5-D	249	FN154-13	Gear, Idler
5-B	210	UG11M-11	Screw, Tilt	3-E	250	FK551-13	Spring, Cassette
5-B	211	UG11K-12	Screw, Bind (M2 x 18)	3-E	251	FG114-15	Screw, W/Washer (M2.6 x 4.5)
5-B	212	FK572-11	Spring, Azimuth	4-E	252	FJ141-12	Washer, Oil Shield
3-B	213	*	Base, Head	4-E	253	FR360-12	Guide, Cassette
4-B	214	FK11F-23	Spring, Tilt	5-E	254	FJ123-15	Washer, Lock (ϕ 2.6)
5-B	215	WH17U-00	Connector, Cable (Rec)	5-E	255	F014-053	Assembly, Pinch Roller
5-B	210	WH17V-00	Connector, Cable (P.B.)	5-E	256	FK569-12	Spring, Pinch Roller
5-B	216 217	WH17W-00	Connector, Cable (1.B.)	1-E	í	FG143-26	Screw, Machine (M2.6 x 15)
	217	VVIIIIVV	(Thermistor)	1-E	258	FP11N-11	Panel, Terminal
2-C	210	KG194-12	Screw, Tap Tite (M3 x 6)	2-E	259	KY130-11	Base, Connector (8P)
2-C		FK573-11	Spring, Arm Lock	2-E	260	FG143-17	Screw, Machine (M2.6 x 3)
2-C	220		Assembly, Dumper	- 1			
- "	220	11472	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2-E	261	FK575-11	Spring, Play Idler
3-C	221	FK568-11	Spring, Door	3-E	262	FP469-11	Assembly, Idler
1-C	222	FR357-14	Arm, Record	3-E	263	FK577-11	Spring, Head Base
1-C		FM296-11	Spacer	5-E	264	FK576-12	Spring, Play Solenoid Arm
2-C	224	FC11H-12	Arm, Eject Lock	5-E	265	FR350-12	Bracket, Door
2-C	225	UG11D-11	Screw, Tap Tite (M2 x 12)				
		-		1-F	266	*	Tube, Vinyl (Blue)
1-C	226	FR356-13	Arm, Switch	1-F	267	*	Tube, Vinyl (Brown)
2-C	227	FR352-11	Lever, Safety	1-F	268	*	Tube, Vinyl (Red)
2-C		KG194-46	Screw, Tap Tite (M3 x 4.5)	2-F	269	*	Bracket, Solenoid
3-C		FR349-13	Bracket, Dumper	3-F	270	FK574-12	Spring, Assist Base
3-C		FJ111-19	Slidor, Polyester (ϕ 2 x 0.13)				
1			(Supply Reel)	3-F	271	*	Base, Assist
				4-F	272		Arm, Play Solenoid
4-C	231	FP464-11	Pad, Cushion	5-F	273	1	Belt, Main
4-C		FR12P-11	Assembly, Supply Reel	5-F	1	FJ111-14	Sider, Polyester (ϕ 2.5 x 0.5)
4-C	233	FD14U-11	Spacer, Head	1-G	275	FD12W-11	Arm, Brake
4-C		FH126-11	Binder, Wire				
4-C	235	FR12N-11	Assembly, Take-up Reel	2-G	276		Arm, F.F. Solenoid
1				2-G	277	FK570-12	Spring, Solenoid Bracket
4-C		FJ123-14	Washer, Lock (ϕ 1.7)	3-G	278		Gear, Play
5-C		FR13V-11	Assembly, Tension Arm	3-G	279		Bracket, Motor
5-C		FG137-12	Screw, F-Lock (M2 x 4)	4-G	280	FK11F-16	Spring, Thrust
1-D		WH16A-00	Connector, Wire			5	5
2-D	240	FG137-11	Screw, F-Lock (M2 x 3)	4-G	1 1	FM281-11	Spacer, Flywheel
				4-G	282	FR13L-11	Assembly, Flywheel
OTE	\	oarte i	number are not entered are not supplie		L		L

NOTE: *The parts whose part number are not entered are not supplied.

Semi-Conductor Lead Identifications





	T	<u> </u>
2SC732 : Q253, 254	2SC1842, 2SC1843: Q253, 254	2SC1222: Q253, 254 2SC945: Q255, 256, 303 to 310, 313, Q314, 353 to 362, 401 to 408, Q501, 502, 601, 602, 606, 802 2SA733: Q901 to 904
	€ c e	
2SC1815: Q255, 256, 301 to 314 Q351 to 362, 401 to 408, 451, Q452, 501, 502, 601, 602, Q606, 802 2SC509: Q453, 454	2SC1890: Q503, 504, 801	25 `6 36 : Q255, 256, 301 to 314, Q351 to 362, 401 to 408, 451, Q452, 501, 502, 651, 802
TUC B		E E